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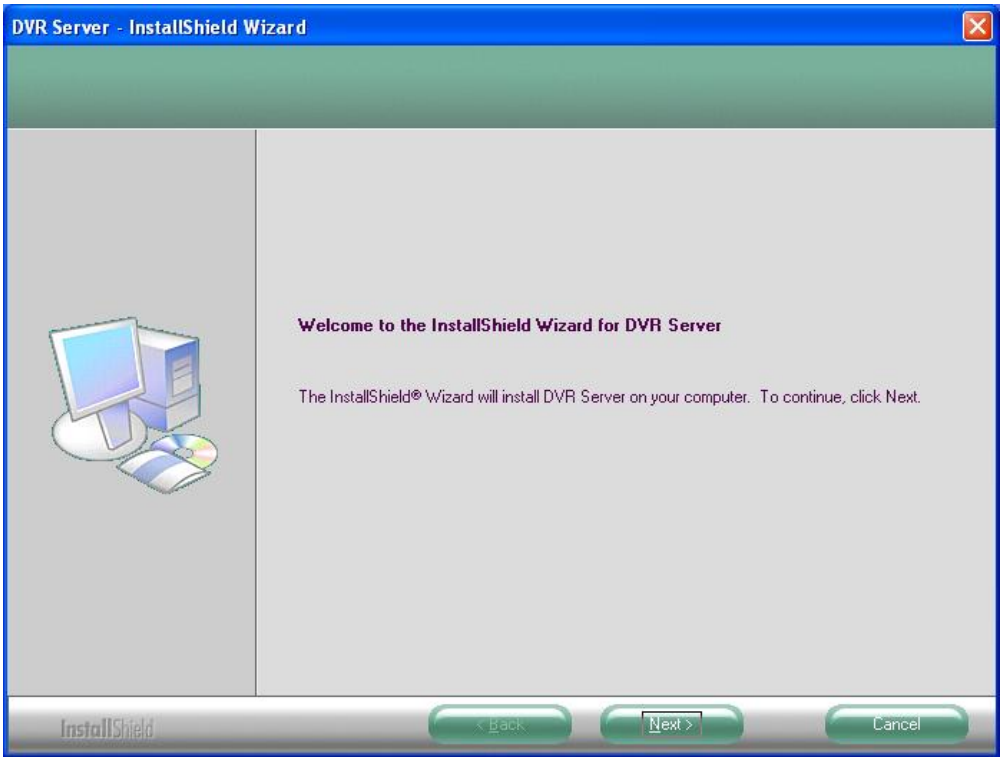
# CHAPTER 1
# HARDWARE Specification

## 1.1 Product Specification

| Models | **4-30 /4-60 / 4-120 / 8-60 / 8-120 / 8-240 / 12-90 / 16-120 / 16-240 / 16-480** |
|---|---|
| Displaying Speed | 30fps(NTSC) /60 /120 /60 /120 /240 /90 /120 /240 /480 |
| Recording Speed | 30fps(NTSC) /60 /120 /60 /120 /240 /90 /120 /240 /240 |
| Video Inputs | 4 / 4 / 4 / 8 / 8 / 8 / 12 / 16 / 16 / 16 |
| Audio Inputs | 1 / 2 / 4 / 2 / 4 / 8 / 3 / 4 / 8 / 8 |
| Sensor Inputs | 4 / 4 / 4 / 16 / 16 / 16 / 16 / 16 / 16 |
| Alarm Outputs | 2 / 2 / 4 / 8 / 8 / 8 / 8 / 8 / 8 |
| Video Resolution | 640 X 480 , 640 X 240 , 320 X 240 (NTSC) |
| Compression Type | MPEG-4 |
| Supported Signal Types | |
| Supported Network | TCP/IP, PSTN |
| Supported Backup Devices | HDD, DVD/R, CD/RW, Network Driver, etc. |
| Supported PTZ Protocols | C&B Tech-CND100200&SMART, Changzhou Minking-Minking, CTNCom-HD0670, Dong Yang Unitech-DSC230, DRAGON-DRAGON, Dynacolor-TPD7720, Geosan-GRX1000, GOLDENEYE-GOLDENEYE, InterM-VRX2201, KALATEL-KTD312, KJK-KJK, LG-LPTA100L, PELCO D&P, SAMSUNG-SCC641&SDZ160R&SPD1600&SPX1000&SPT1000, SONY-EVID3031, Vicon-Survey&2000, ZITEC-ZITECH, etc. |
| Operating Systems | Windows XP, Windows 2000, Linux |
| Supported Languages | English, Spanish, Japanese, French, Traditional Chinese, Simplified Chinese, Portuguese, Hebrew, Polish, German, Finnish, Greek, Hungarian, Korean, etc. |

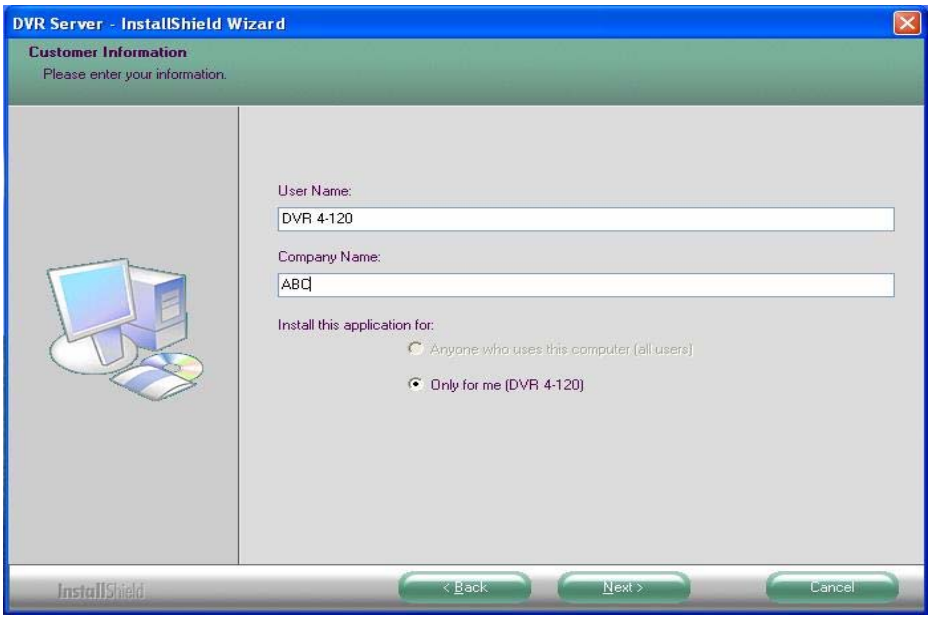
# CHAPTER 2
# SOFTWARE INSTALLATION

**Steps:** 1. Insert CD.  2. Installation Wizard comes up automatically.

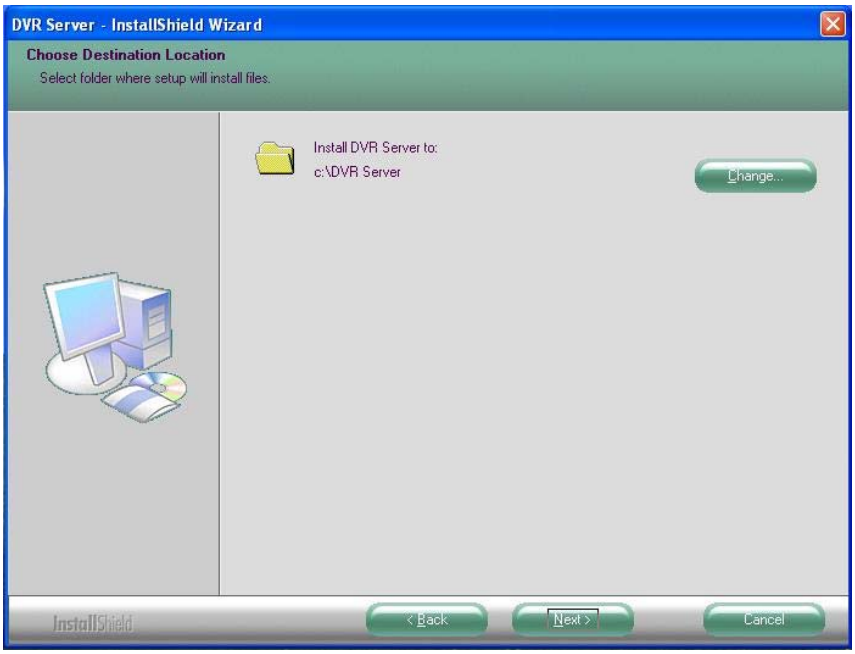

DVR Server - InstallShield Wizard
Welcome to the InstallShield Wizard for DVR Server
The InstallShield® Wizard will install DVR Server on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

# 2.1 Automatic Installation

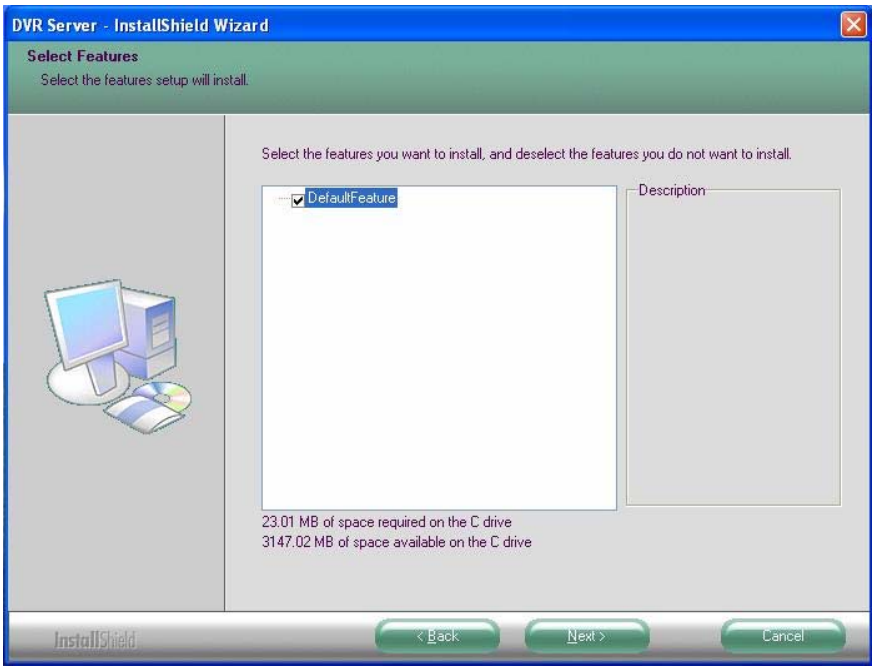
## 2.1.1 Input Customer Information



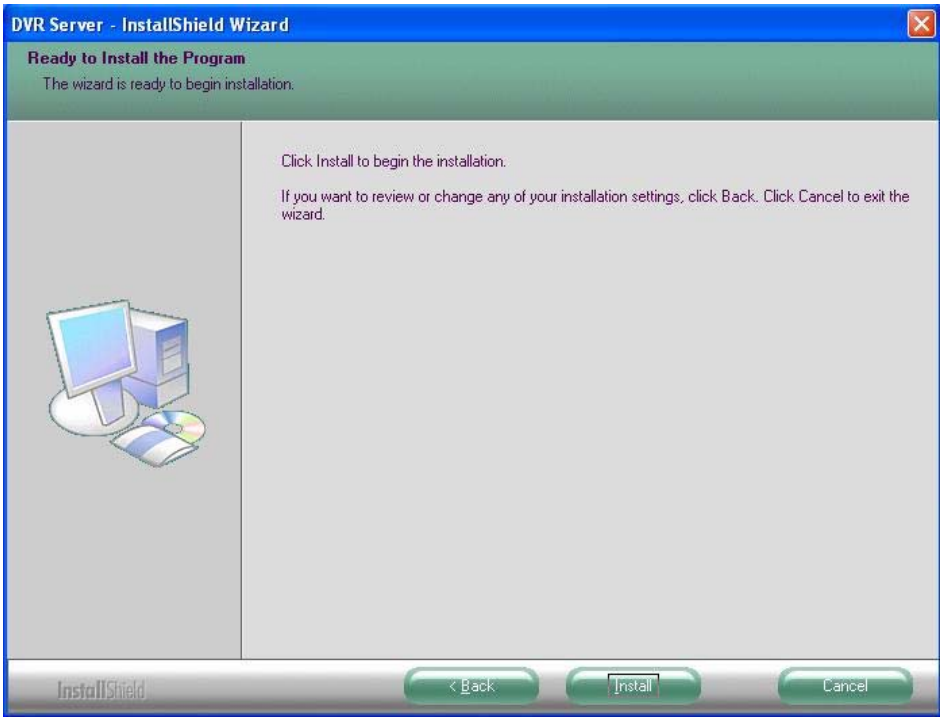

## 2.1.2 Choose Installation Directory



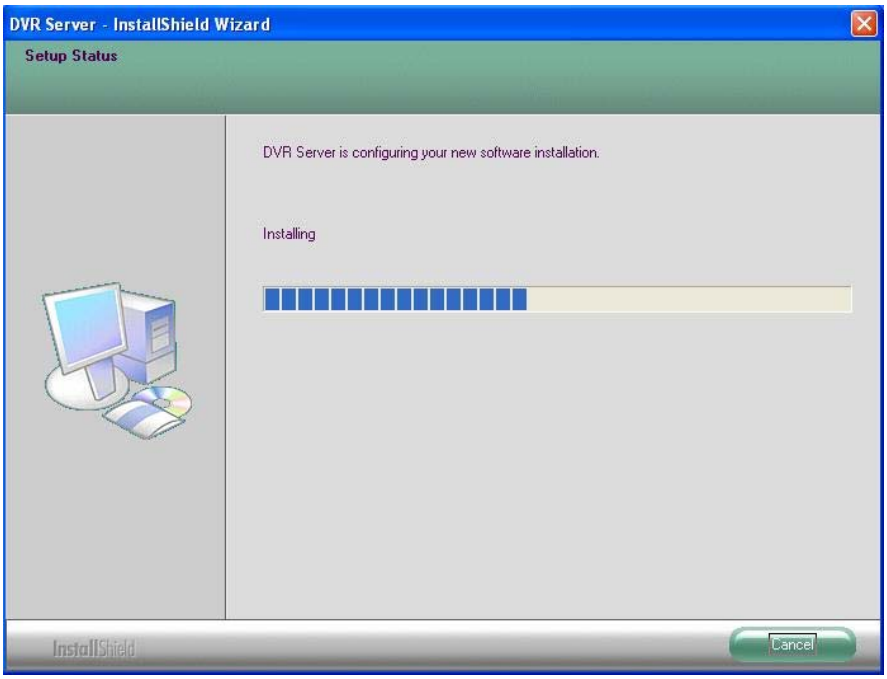
## 2.1.3 Select Features


DVR Server - InstallShield Wizard
Select Features
Select the features setup will install.
Select the features you want to install, and deselect the features you do not want to install.
DefaultFeature
Description
23.01 MB of space required on the C drive
3147.02 MB of space available on the C drive
InstallShield
< Back
Next >
Cancel

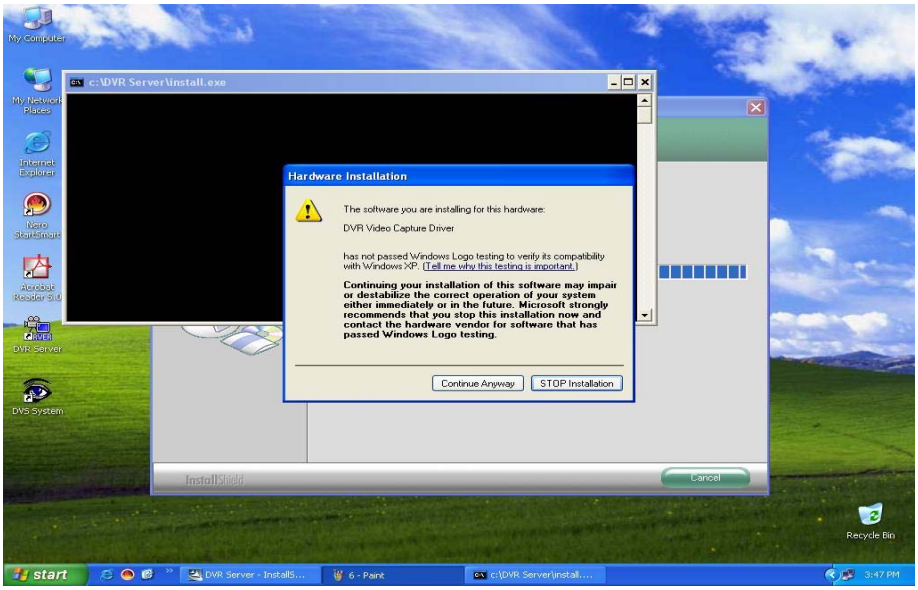
## 2.1.4 Begin Installation


DVR Server - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

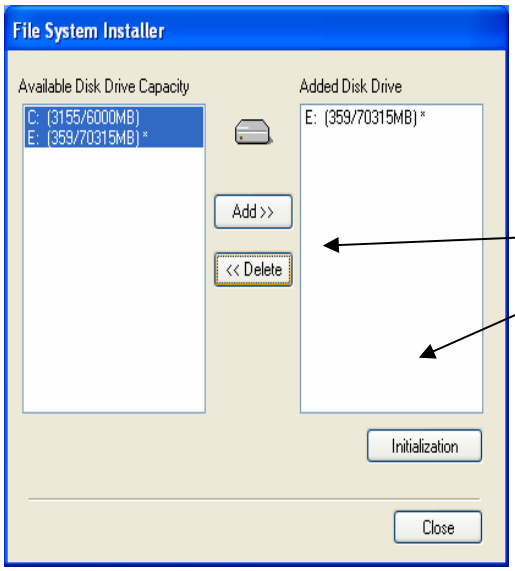
## 2.1.5 Setup Status




## 2.1.6 Bypass Windows Warning

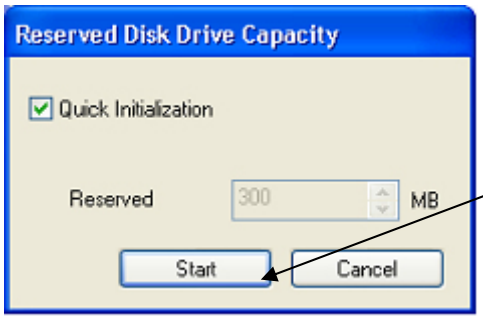

c:\DVR Server\install.exe
Hardware Installation
The software you are installing for this hardware:
DVR Video Capture Driver
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation
InstallShield
Cancel
start

## 2.1.7 DVR File System Installation

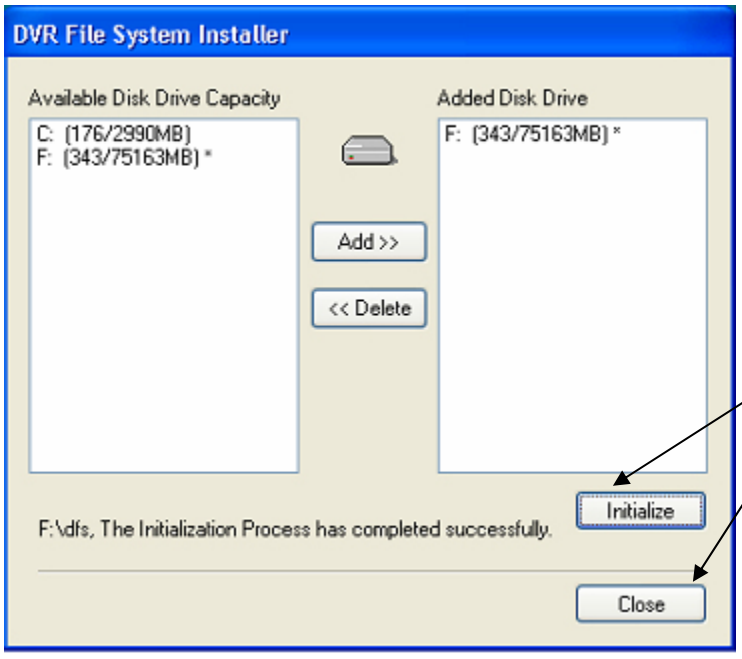



* Definition: Reserve hard disk capacity to record data
* Steps: 1. Select drives from "Available Disk Drive Capacity"
2. Click "Add".
3. Click "Initialization".
* Caution:

1. Be very careful not to add "C Drive", for it is used for O/S and DVR software.
2. HDD has to be initialized to record data

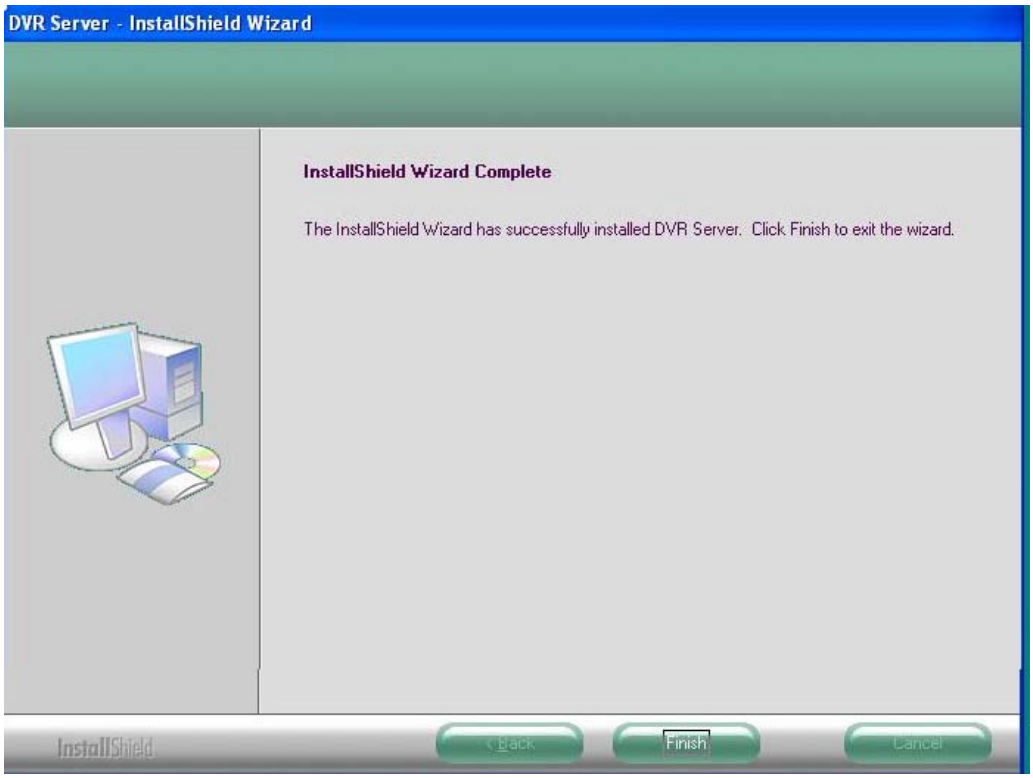



Selecting "Quick Initialization" will lead to the initialization of entire disk capacity added. Otherwise, put in desirable number to initialize. Note that the number can not exceed total capacity added.
Remark: First installation suggest NOT check "Quick Initialization". Please be patient for initialization




Initialization process will be performed automatically. Click "Close" upon completion.

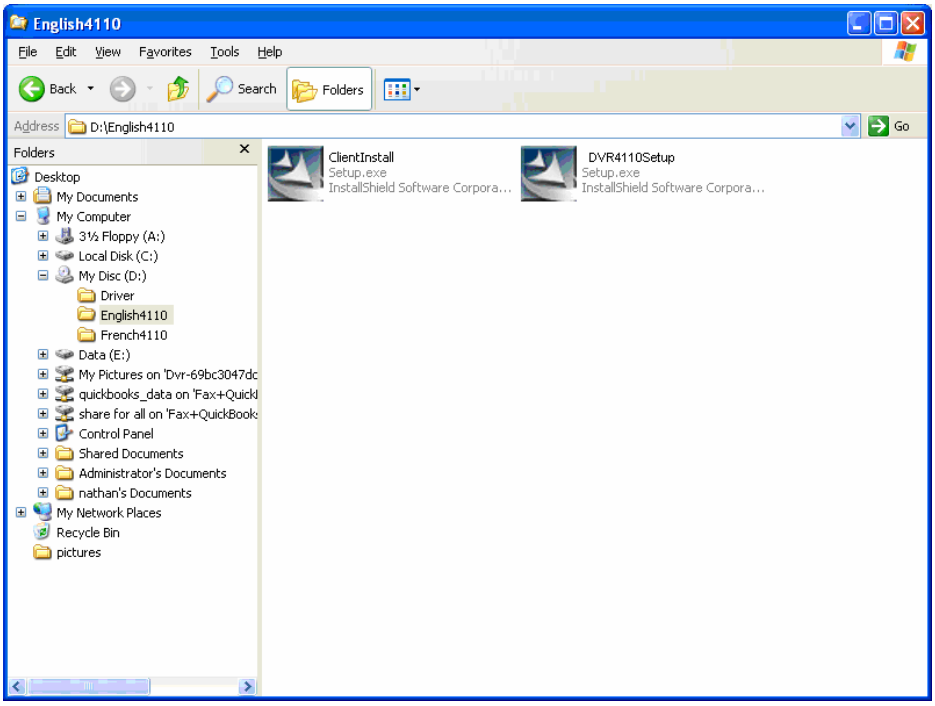
## 2.1.8 Completion & Retry

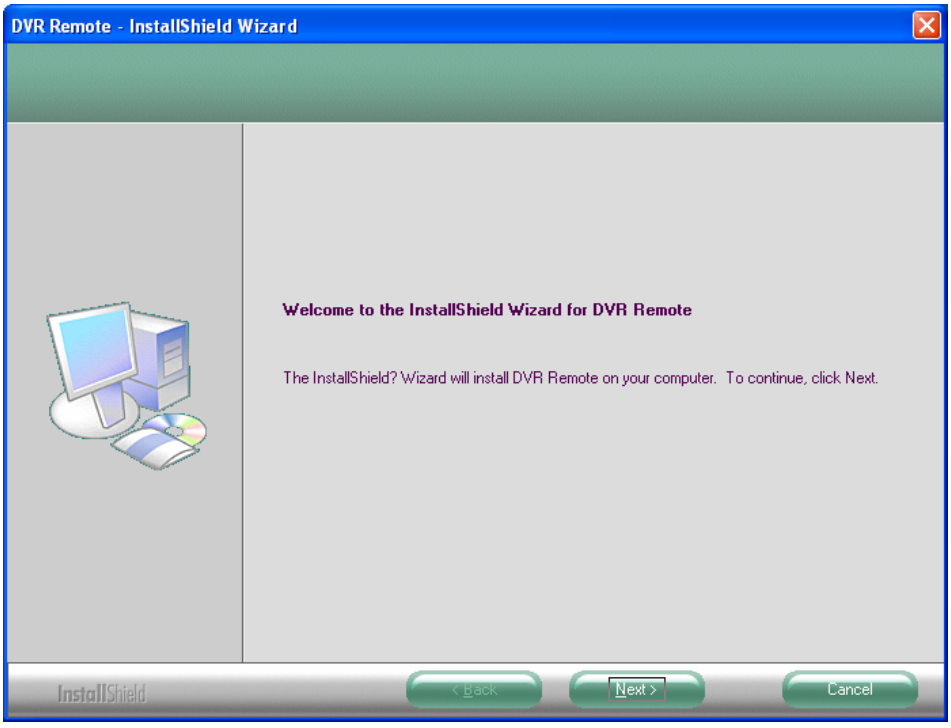


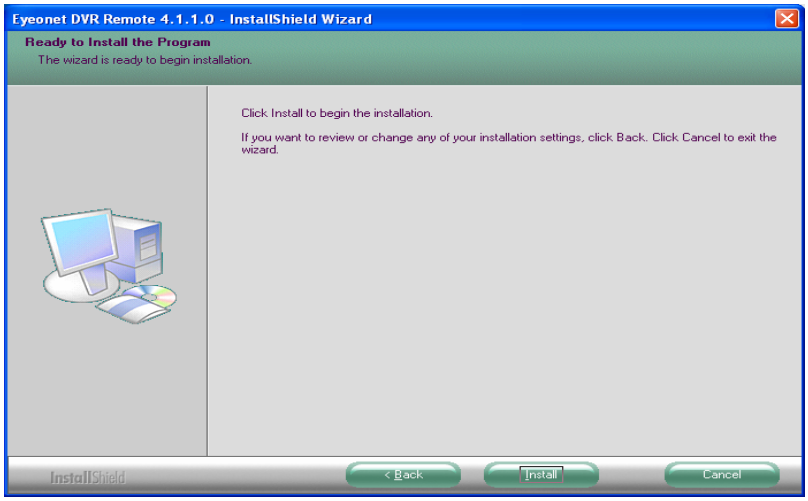

Retry the entire procedure if an error message is displayed.

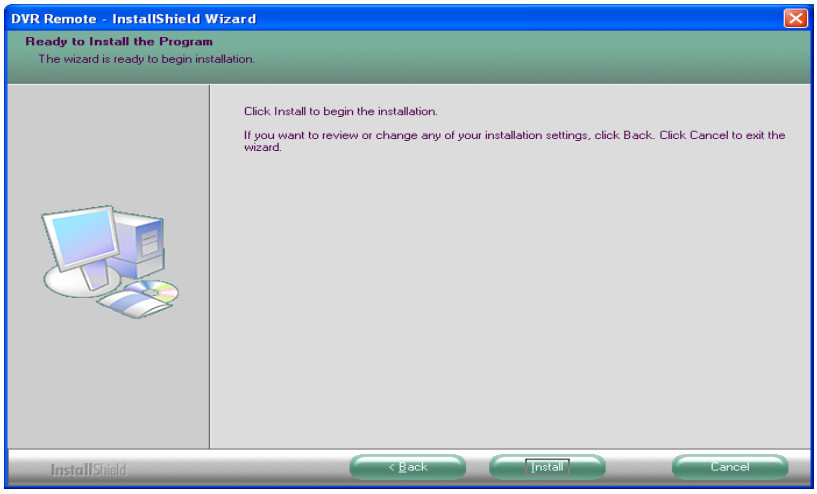
# 2.2 Remote Client Installation

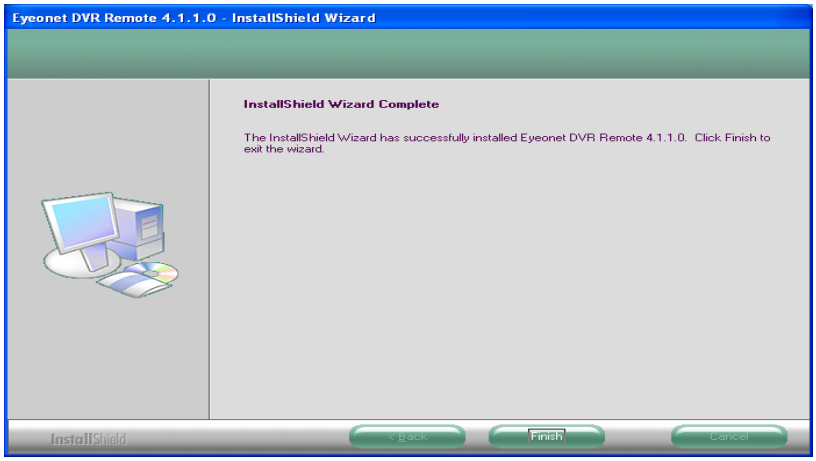
## 2.2.1 Explore the CD and Click on "ClientInstall'

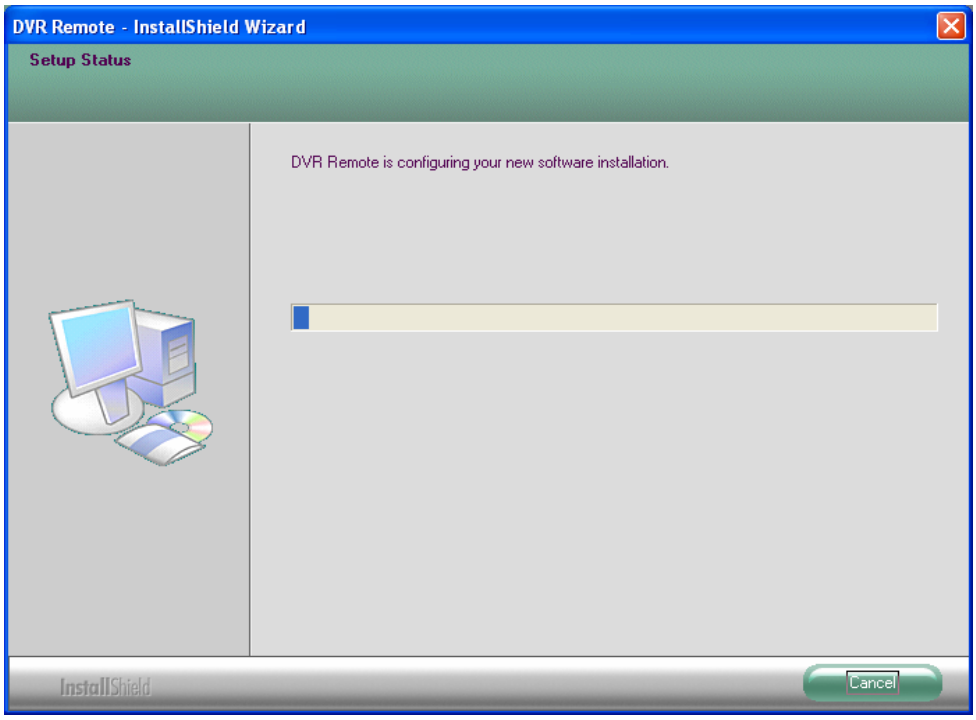


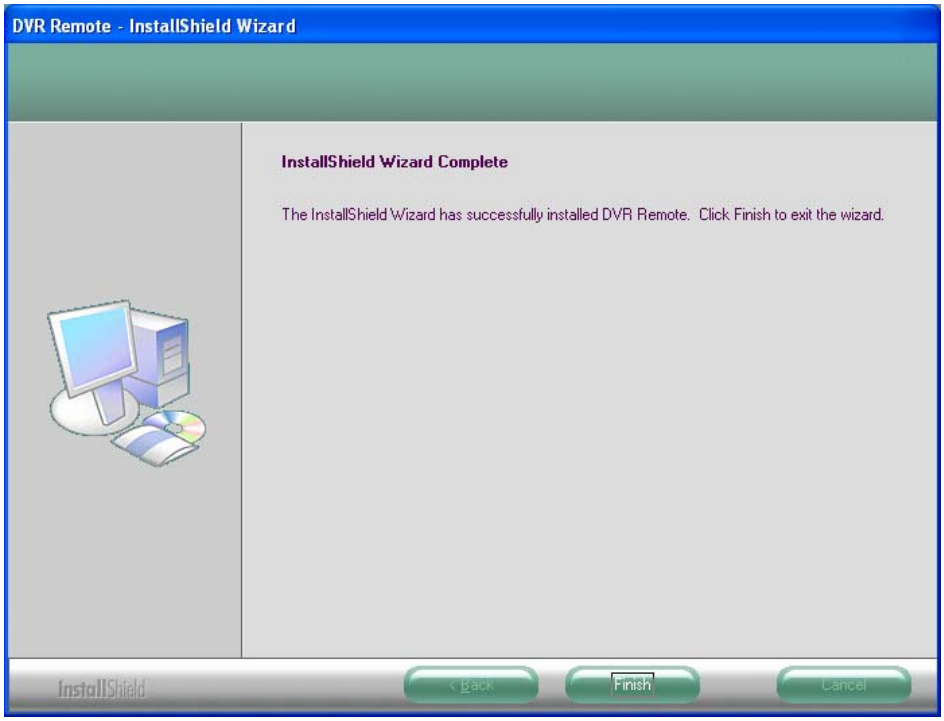


DVR Remote - InstallShield Wizard
Welcome to the InstallShield Wizard for DVR Remote
The InstallShield? Wizard will install DVR Remote on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel


Eyeonet DVR Remote 4.1.1.0 - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

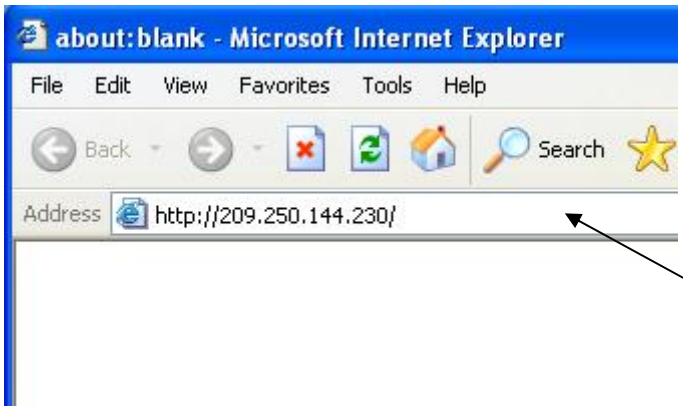

DVR Remote - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel


Eyeonet DVR Remote 4.1.1.0 - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Eyeonet DVR Remote 4.1.1.0. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

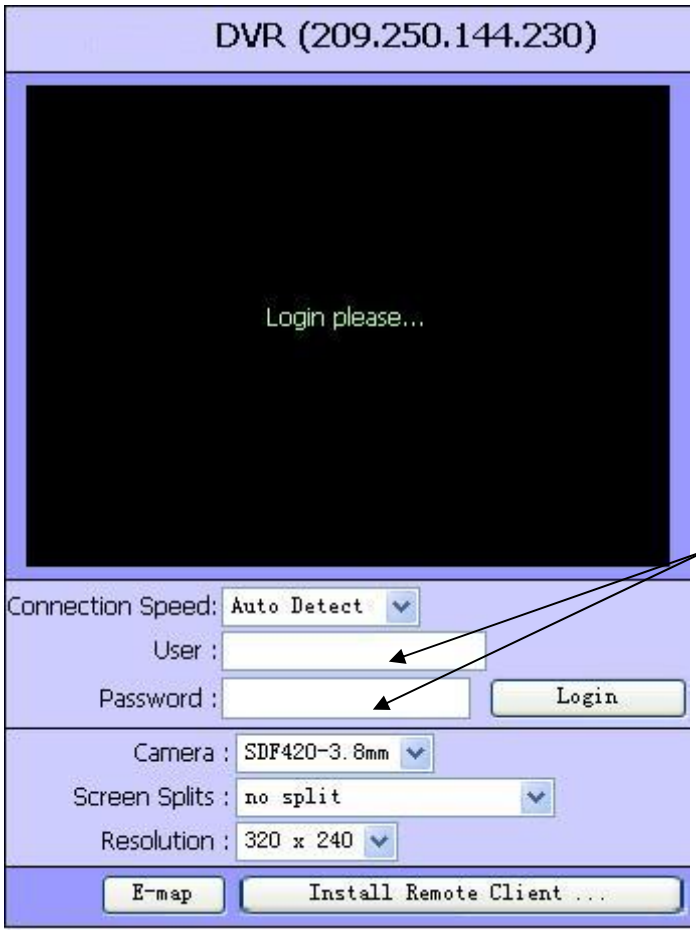

DVR Remote - InstallShield Wizard
Setup Status
DVR Remote is configuring your new software installation.
InstallShield
Cancel


DVR Remote - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed DVR Remote. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

### 2.2.2 Using Web Browser

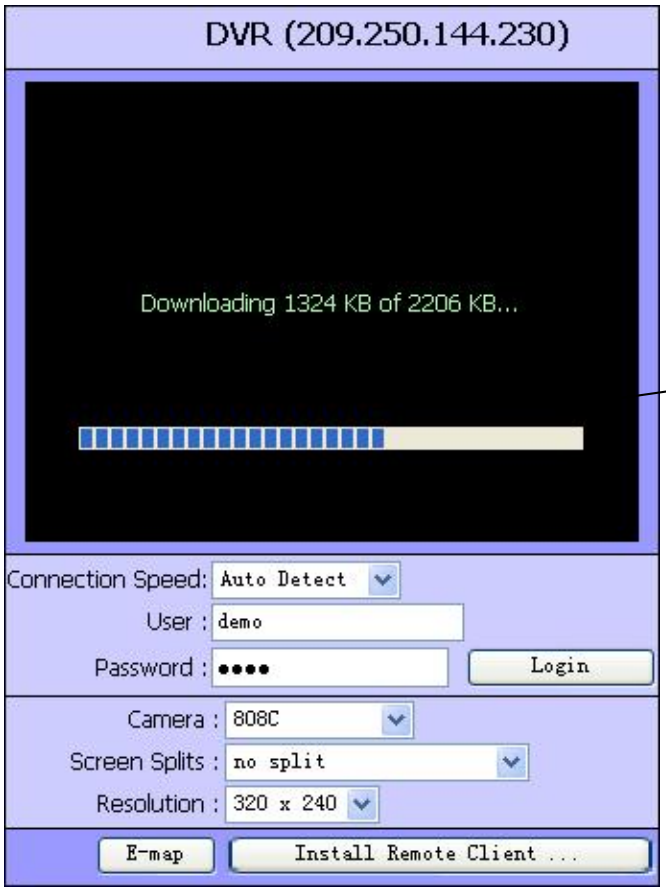



1. Type in the IP address of DVR server or domain name, such as abc@ddns.info

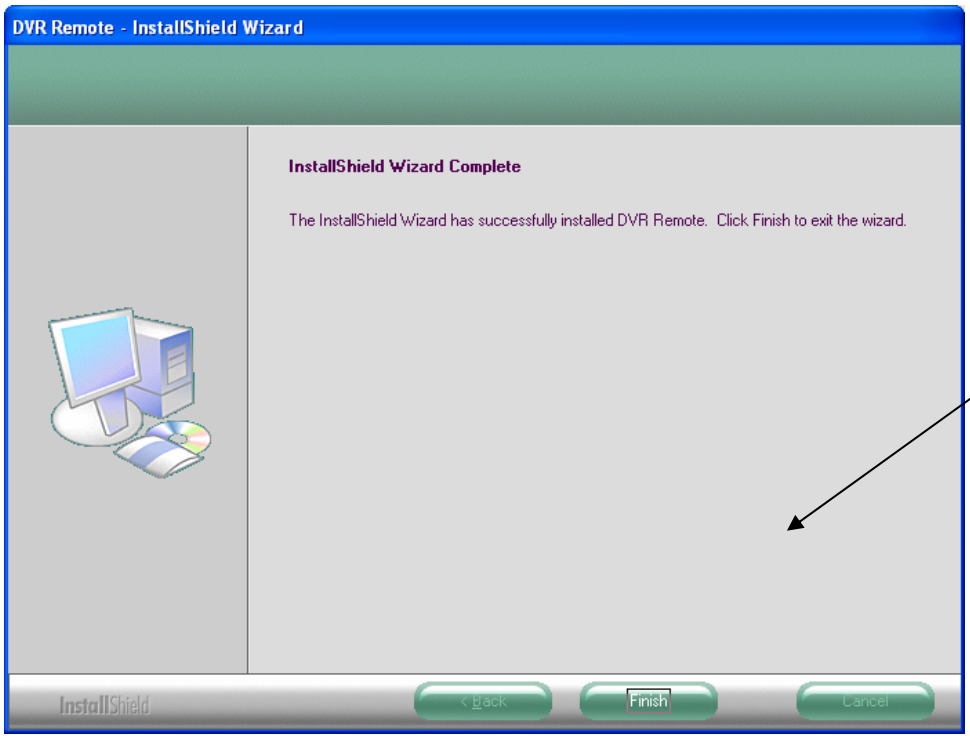



2. Login first and then download the Remote Client Program.

3. Click the "Install Remote Client" button for downloading.

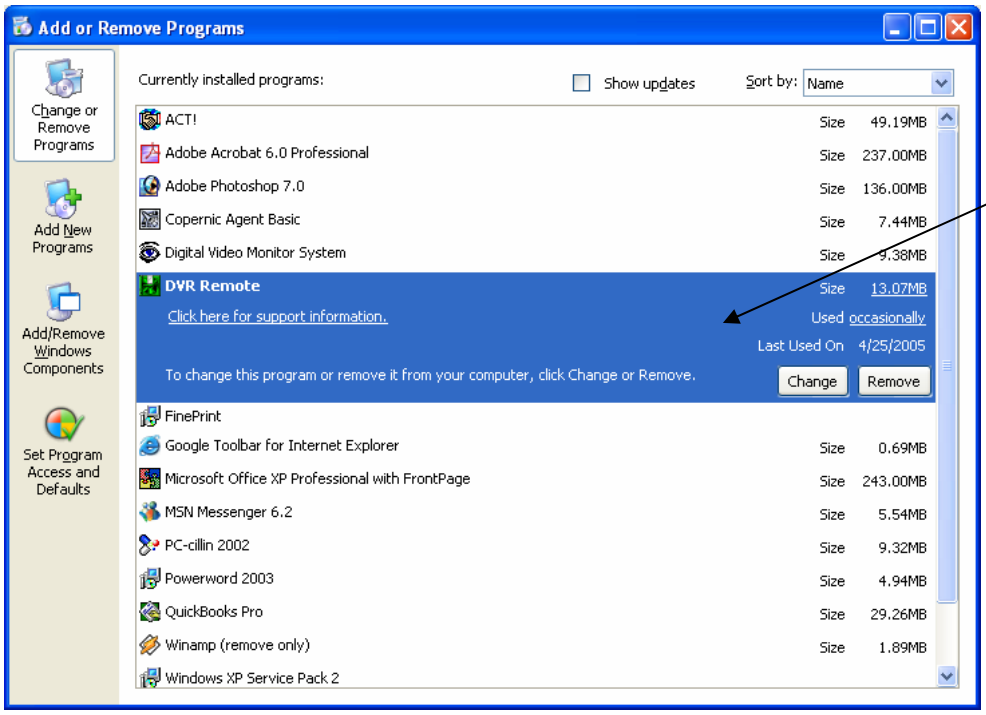



4. Downloading in progress



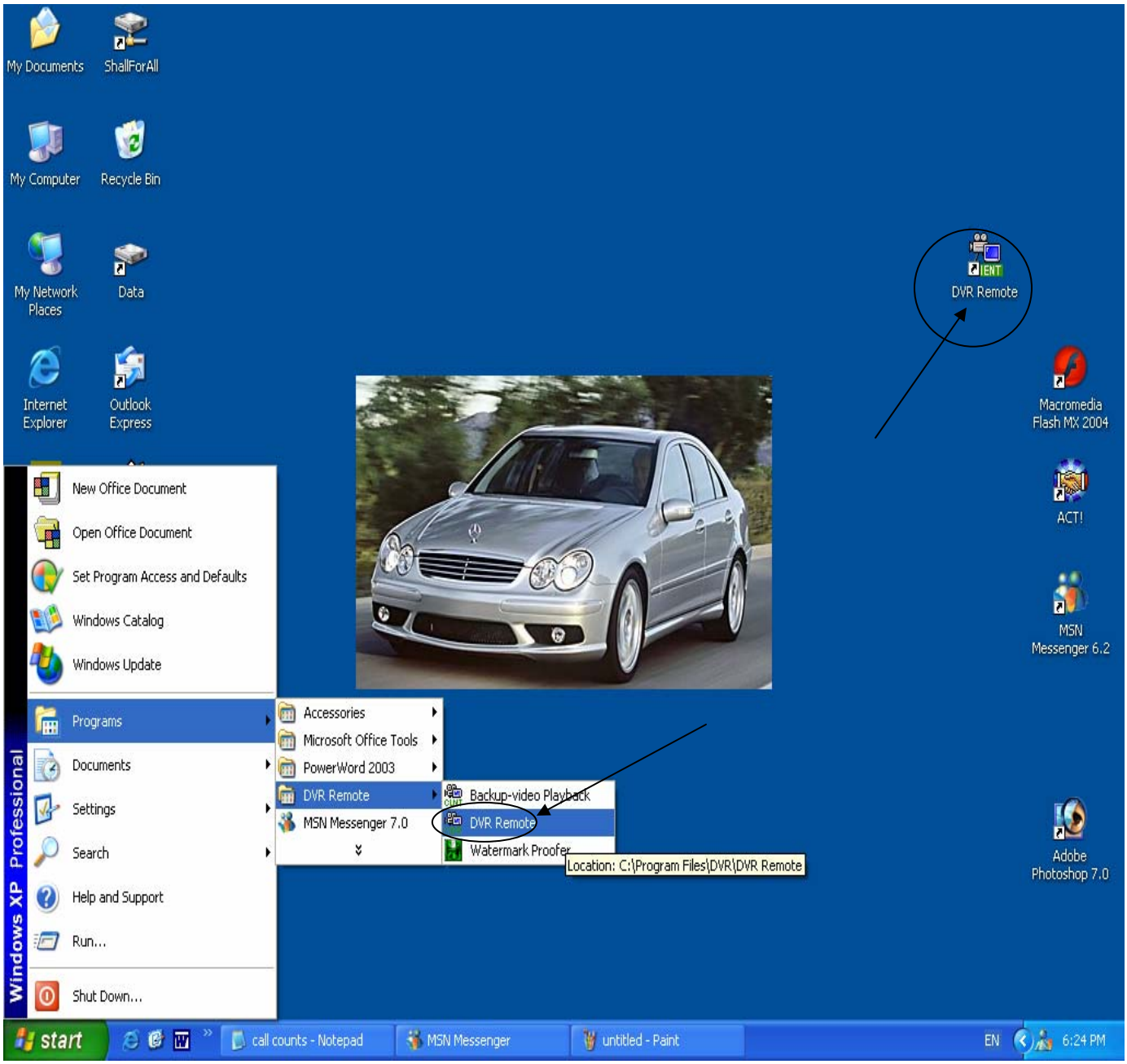

5. Click "Next" to proceed.

## 2.3 Uninstallation


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
ACT! Size 49.19MB
Adobe Acrobat 6.0 Professional Size 237.00MB
Adobe Photoshop 7.0 Size 136.00MB
Copernic Agent Basic Size 7.44MB
Digital Video Monitor System Size 9.38MB
DVR Remote Size 13.07MB
Click here for support information.
Used occasionally
Last Used On 4/25/2005
To change this program or remove it from your computer, click Change or Remove.
Change
Remove
FinePrint
Google Toolbar for Internet Explorer Size 0.69MB
Microsoft Office XP Professional with FrontPage Size 243.00MB
MSN Messenger 6.2 Size 5.54MB
PC-cillin 2002 Size 9.32MB
Powerword 2003 Size 4.94MB
QuickBooks Pro Size 29.26MB
Winamp (remove only) Size 1.89MB
Windows XP Service Pack 2

Remove remote client program

# 2.4 Program Execution



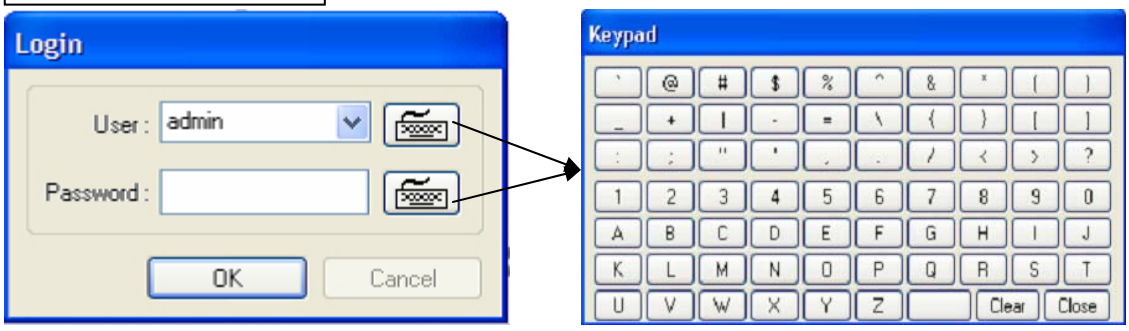

Find the icons on the desktop to execute " DVR" and " DVR Client".
Or find " DVR" under "All Programs".

# CHAPTER 3
# Main System Application (Control)

## 3.1 Startup Screen

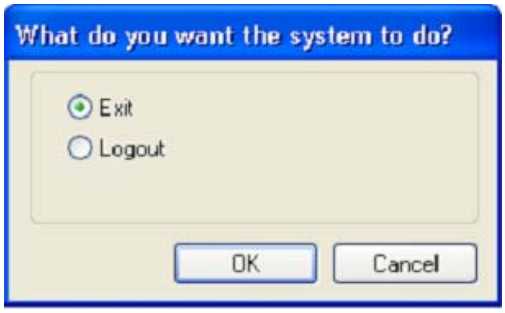
The above screen will appear as DVR system starts.

## 3.2 Login



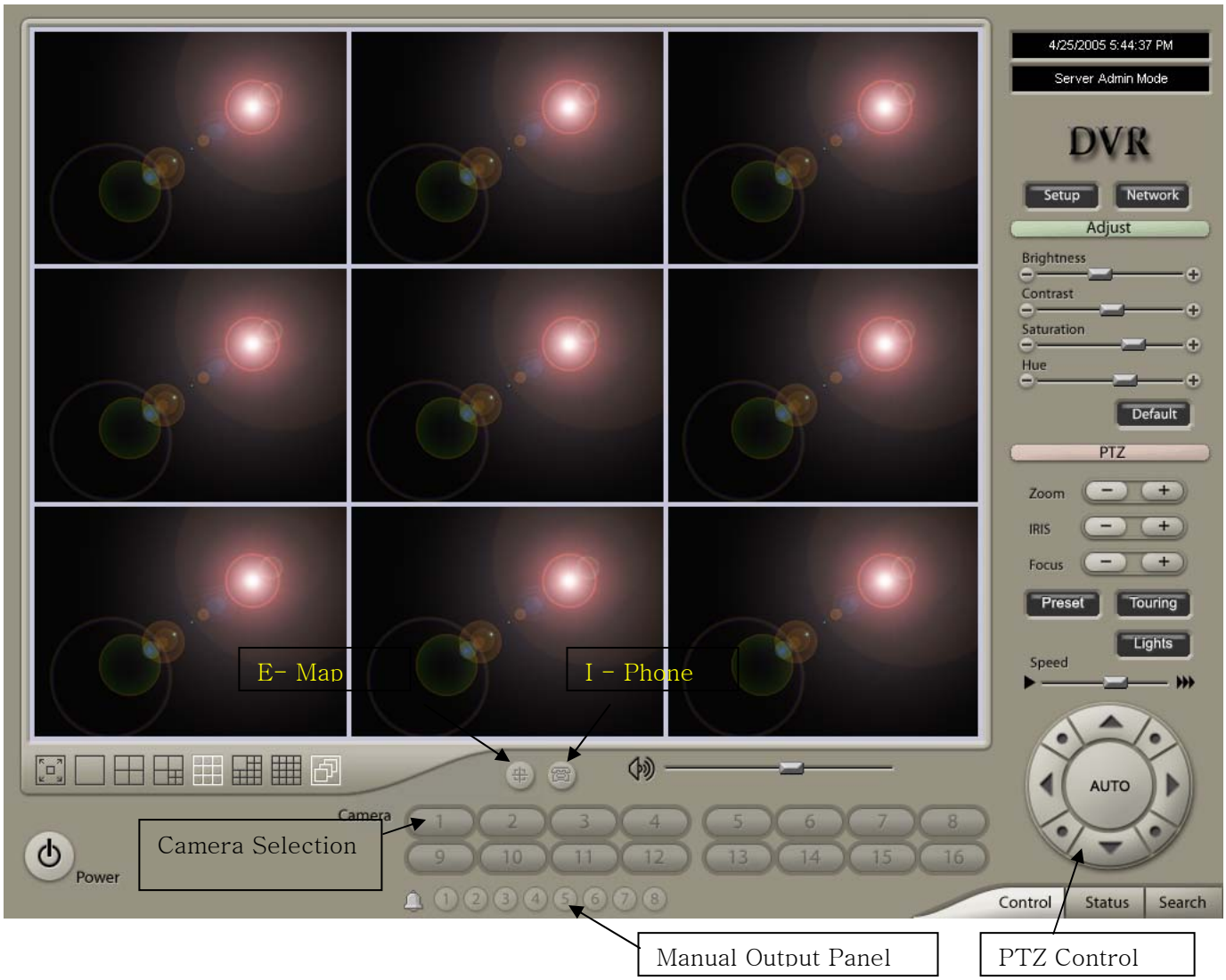

The default values for User and Password are "admin" and "no password". Click "OK" to execute DVR system. To give "admin" a password and to create new users, certain configurations are required (Setup/User). Only "admin" and users with appropriate authorization have access to the Setup menu.
Note: Virtual keypad is available wherever typing is required.

## 3.3 Exit/Logout



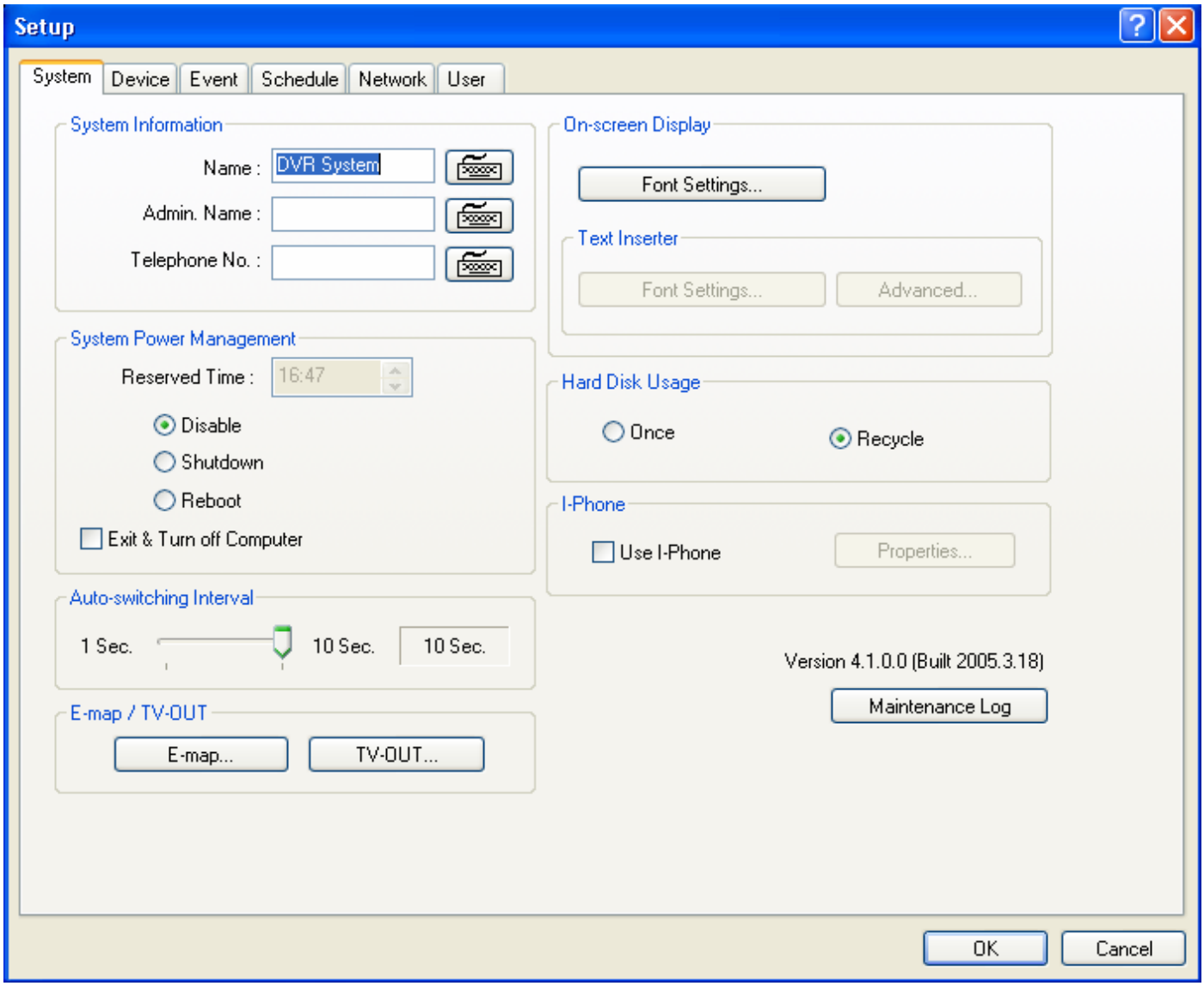
To end DVR system, select "Exit" and type in password.

## 3.4 Control Screen

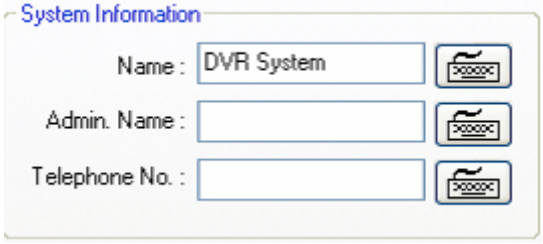


# 3.5 Setup

## 3.5.1 Svstem

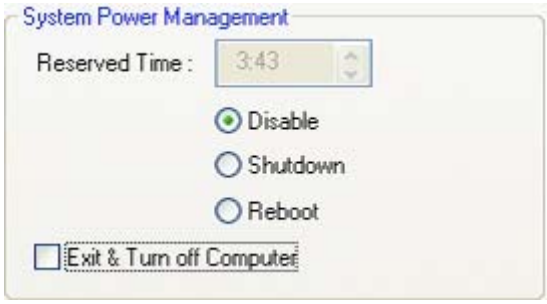



### 3.5.1.1 System Information




Create a DVR name and put in admin. info. They will be displayed on outgoing e-mails.

### 3.5.1.2 System Power Management

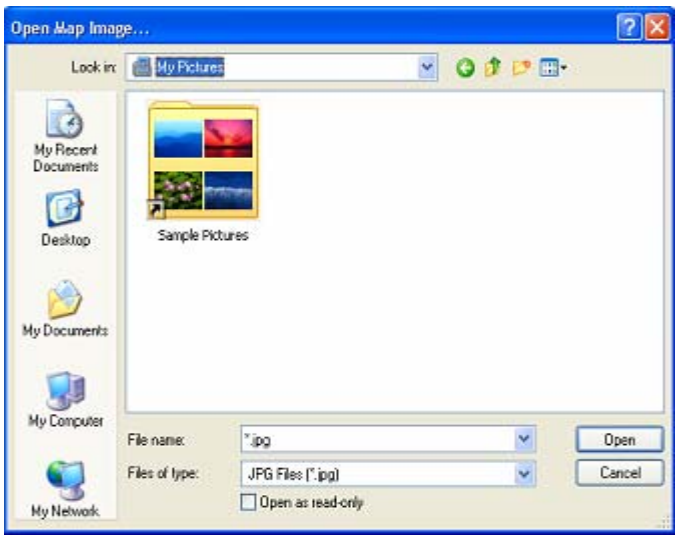


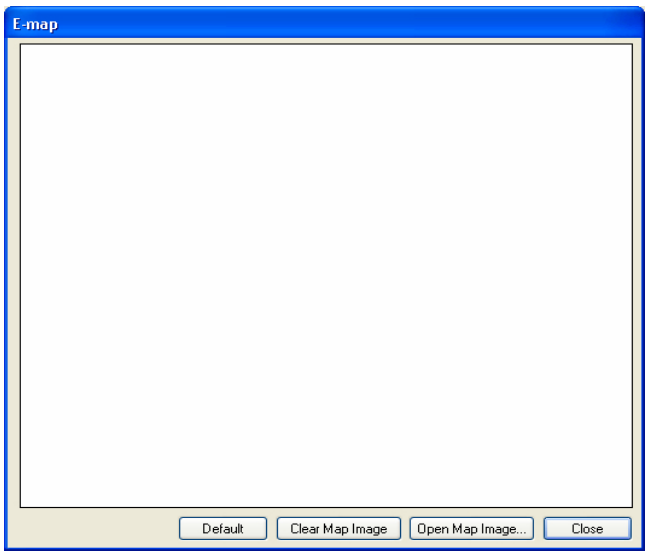

* Reserved time: Time set to shut down or to reboot computer
* Disable: selected when System Power Management is not to be used
* Shutdown: selected when shutting down computer is required at the time set
* Reboot: selected when rebooting computer is required at the time set
* Exit & Turn off Computer: By checking the box, computer will be turned off automatically as a user exits from DVR system.

### 3.5.1.3 Auto-switching Interval

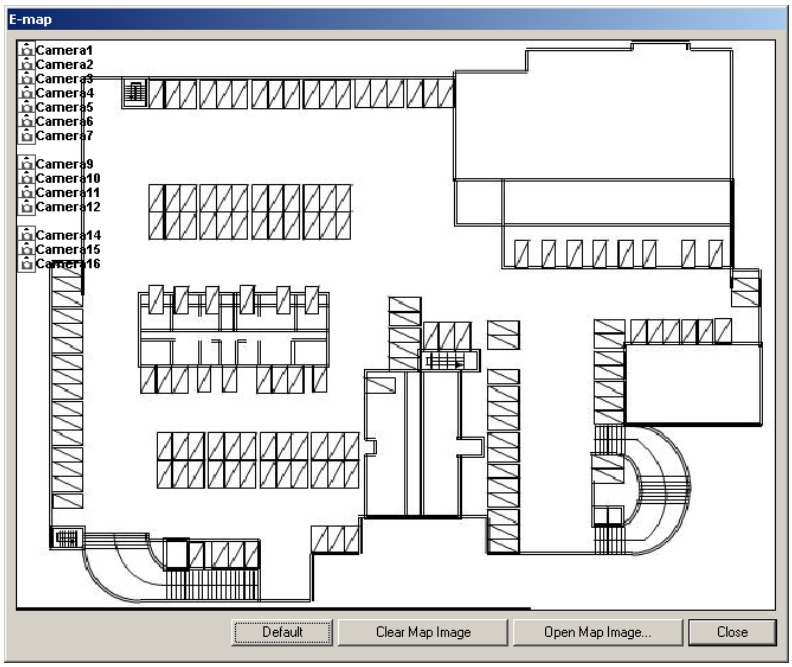
Auto-switching Interval is a function that allows the selected camera with the green square to move to the next one at the interval set.
e.g.) Camera 1 -> 10 sec. -> Camera 2 ->10 sec. -> Camera 3….

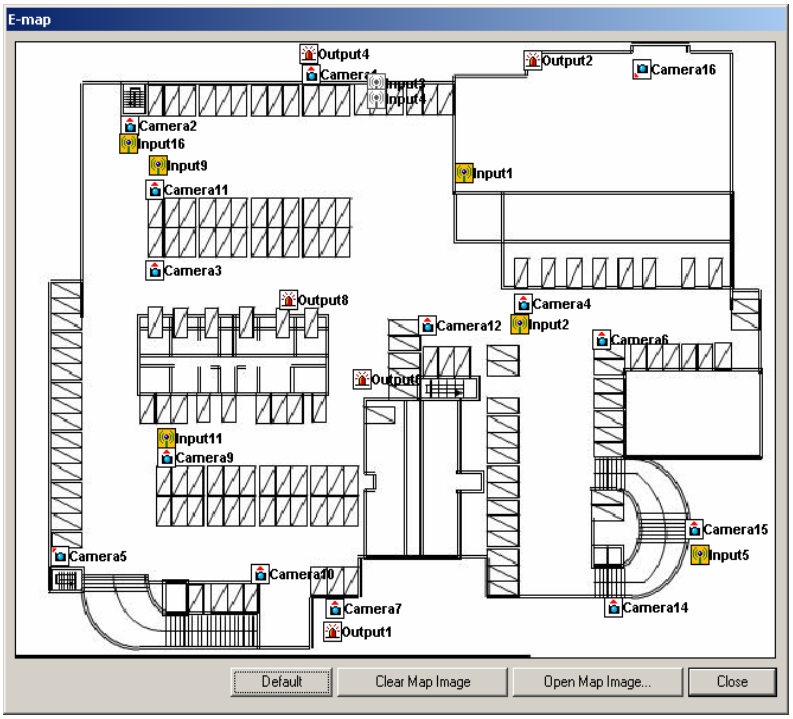
### 3.5.1.4 E-map




Click on the "E-map" button to design E-map.
Click on "Open Map Image"to select an E-map image.



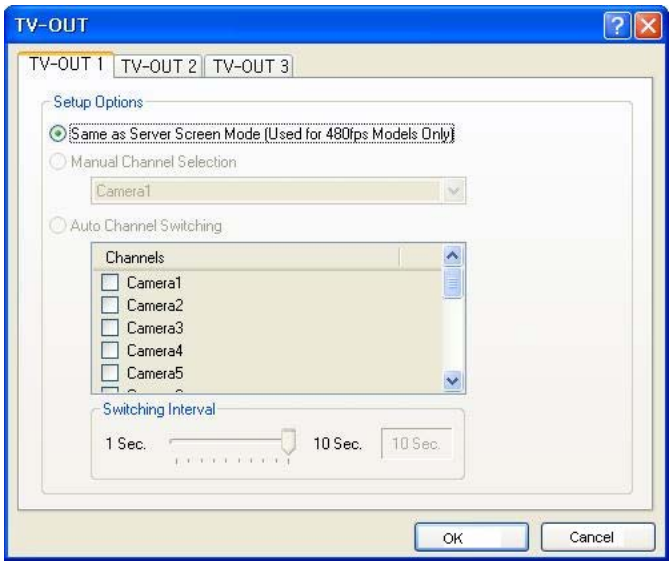

The above is a designed E-map sample. Drag mouse to position Camera/Input/Output and design E-map.

Click on the E-map button positioned next to the I-phone button to open E-map.
White Camera: Not on Recording, Yellow Camera: On Recording,
White Input/White Output: Not Activated, Yellow Input/Yellow Output: Activated

### 3.5.1.5 TV-OUT

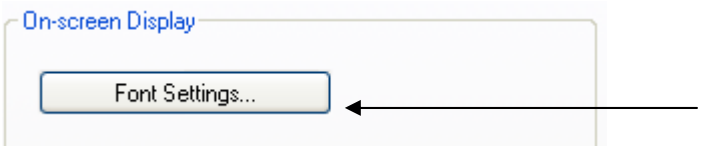
TV-OUT is a function that sends selected cameras to a call monitor (external analog monitor). Click on the "TV-OUT" button for setup.

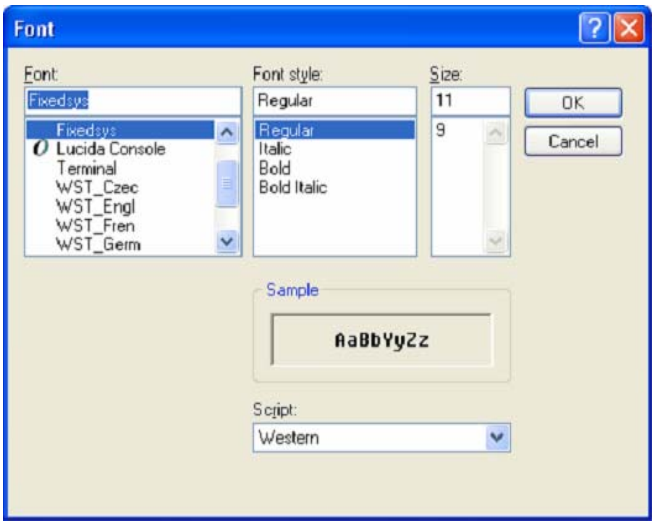
| The Number of TV-out Supported | | | |
|---|---|---|---|
| AC4-30 | AC4-60 | AC4-120 | AC8-60 |
| 1 | 1 | 1 | 2 |
| AC8-120 | AC8-240 | AC12-90 | AC16-120 |
| 1 | 2 | 3 | 1 |
| AC16-240 | AC16-480 | | |
| 2 | 3 | | |




* The models such as 240FPS/240FPS support 2 TV-OUTs. 480FPS/240FPS support 3 TV-OUTs and the rest of the models support 1.
* Setup Options:
  1. Same as Server Screen Mode ( For (480FPS/120FPS) only) - TV-OUT Monitor displays what's on DVR server.
  Manual Channel Selection - Channels are selected manually. Once "Manual Channel Selection" is selected, channels can also be selected manually on Control screen by placing mouse on camera picture and clicking the right mouse.
  2. Auto Channel Switching - Selected channels rotate to display at the switching interval set.
  * Switching Interval: The length of time to stay at one camera

### 3.5.1.6 On-screen Display



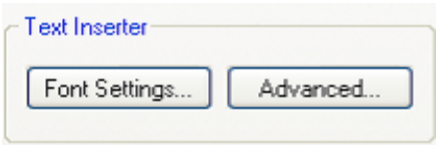




On a camera screen, you may right click the mouse to control OSD as bellows.

* Show Camera Names and Status: By checking it, camera names and status will be displayed on camera pictures.
* Show Motion Detection Blocks: By checking it, green motion detection blocks will be displayed on camera pictures when recording schedule is set as "M" (Setup/Schedule).
* Show Object Detection Blocks: By checking it, blue object detection blocks will be displayed on camera pictures.

Note : Right click the mouse can be a very useful tool. Manual TV-out and OSD setup can be done. Additionally, instant recording can start by one click.

### 3.5.1.7 Text Inserter

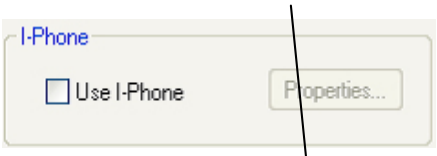



Text Inserter is a function that allows DVR system to integrate with POS machines. Simply install "text_inserter_plugin_for_pos" on DVR Server, and transactions that occur will be displayed on selected camera pictures. Transaction recording and text search are possible as well. For more detailed installation and information, refer to Appendix 1.

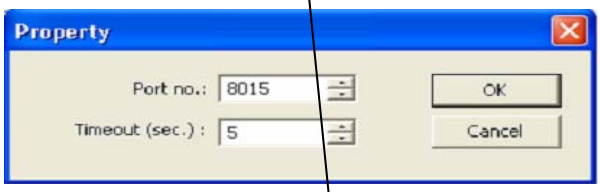
### 3.5.1.8 Hard Disk Usage

Hard Disk Usage is to select data storage method. If "Once" is selected, data will be stored up to the point where HDD reaches its maximum capacity. If "Recycle" is selected, data will be overwritten from the point HDD reaches its maximum capacity based on "First In First Out".

### 3.5.1.9 I-Phone




I-Phone is "Two-Way Audio Communication".
Check the box, go to Control Screen, and click on the I-Phone button for audio communication. For more detailed I-Phone setup, refer to Appendix 2.




* Port No.: The port number for I-Phone use has to be set up. Normally the default value is good to use.
* Timeout: It indicates the maximum length of connection trial. If there is no response within the value set, call will be cancelled.

### 3.5.1.10 Version Info.

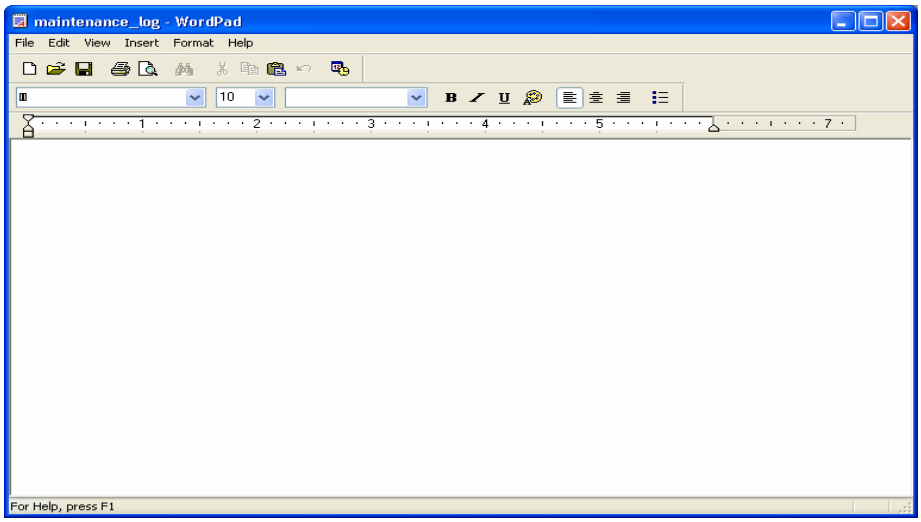
Version 4.1.0.0 (Built 2005.3.18)

* Version 4.1.0.0: version name
* Version 2005.03.18: built date

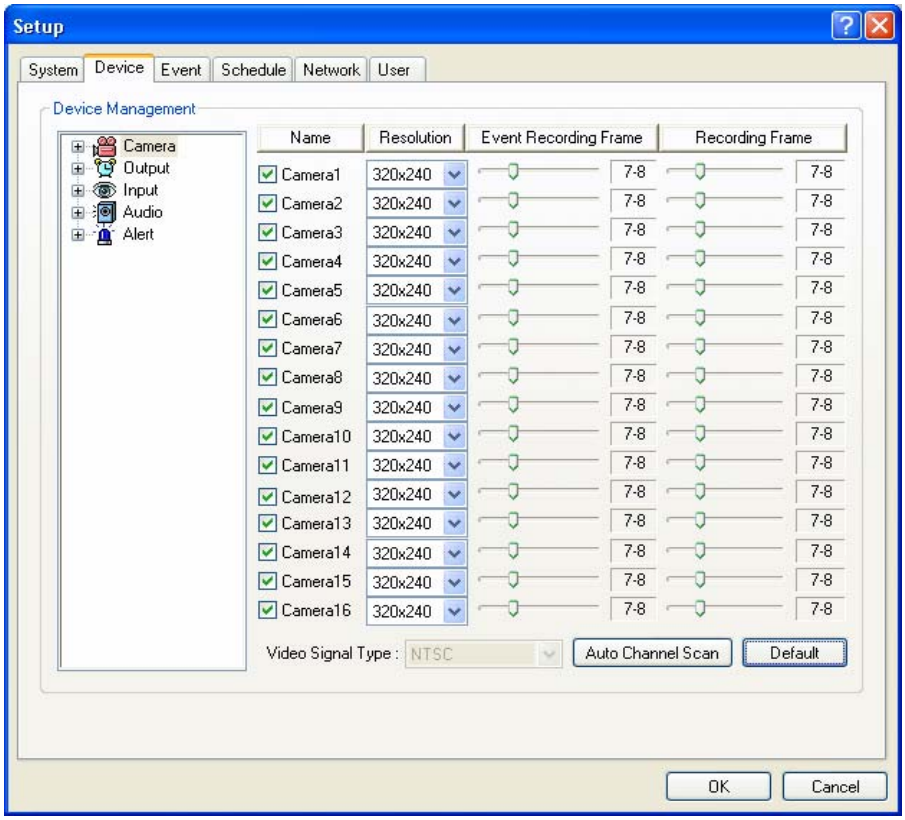
### 3.5.1.11 Maintenance Log

Maintenance Log

It is used to record and view maintenance history.




### 3.5.2 Device



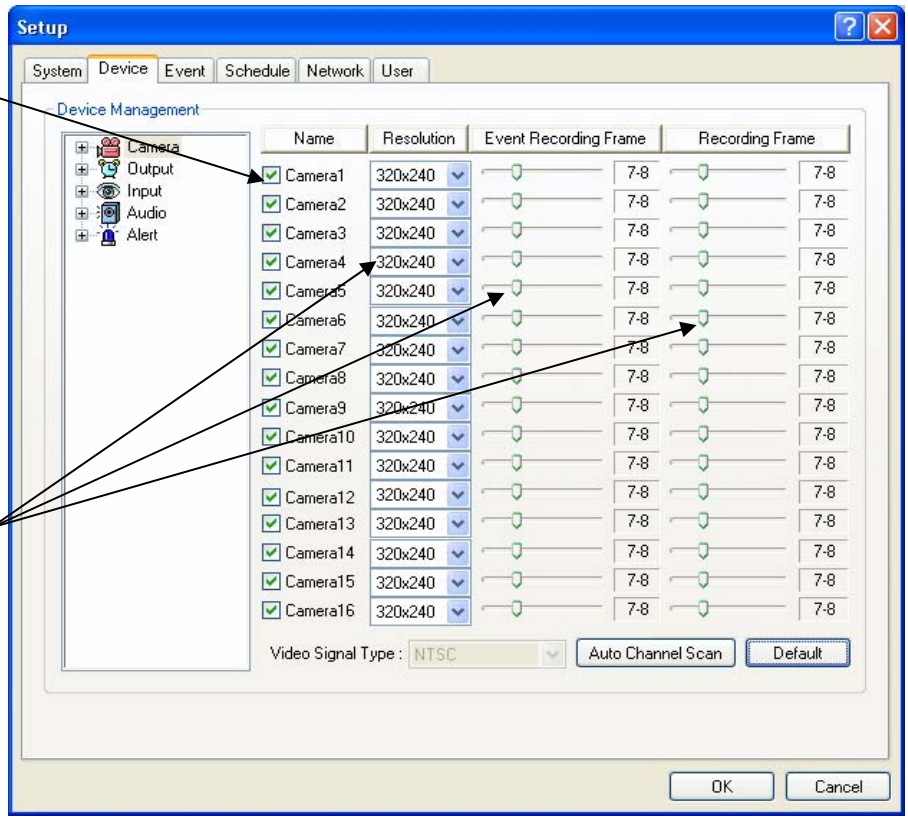

Device sub-screen is divided into 5 different setup categories; Camera, Output,
Input, Audio and Alert.
All devices in each category can be set up on one same page.

### 3.5.2.1 Camera

Cameras will be enabled by checking the boxes or running Auto Channel Scan.

Different resolutions and recording frame rates can be set up for different cameras.

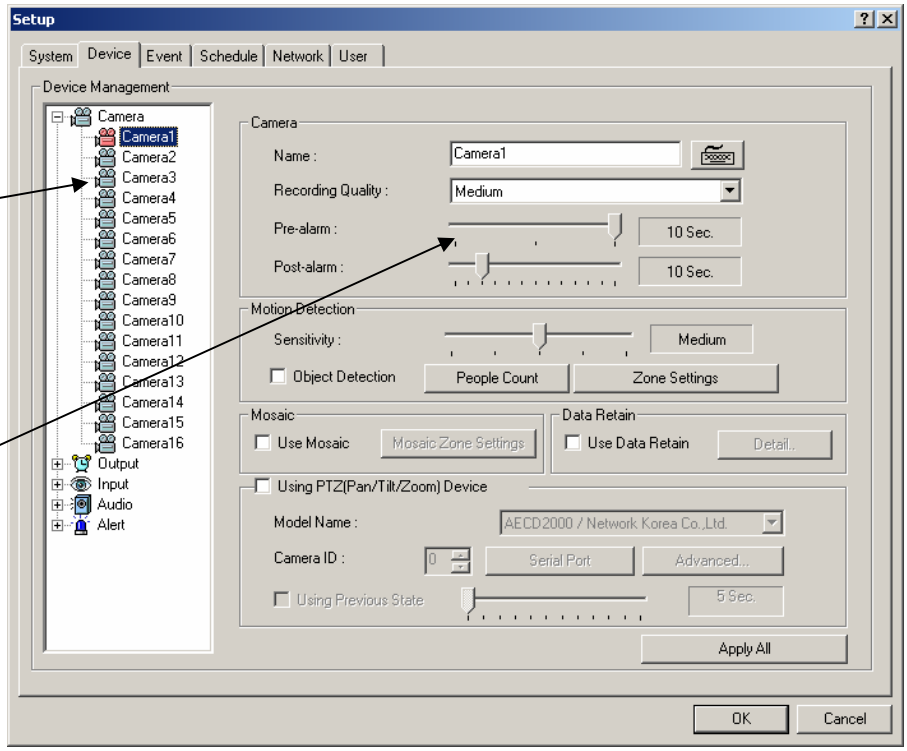
* Video Signal Type: Select either NTSC or PAL.
* Auto Channel Scan: It automatically identifies all the active video channels. Make sure to always click and scan after S/W version change.
* Default: It sets "Event Recording Frame" and "Recording Frame" as default values.




**[Camera]**

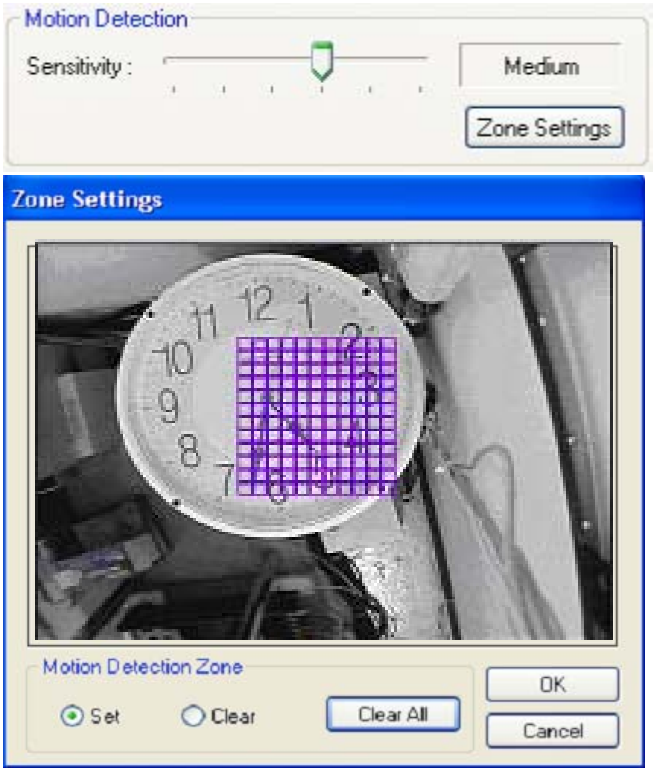
Double-click on "Camera" for more individual Camera setup.

Select recording picture quality.




* Pre-alarm (max. 10 sec.): Length of time to be recorded before event
* Post-alarm (max. 60 sec.): Length of time to be recorded after event

## [Motion Detection]




DVR system is designed to have unlimited motion detection zones and to have different motion detection sensitivity levels.

Zone Settings: 1. Select "Set", drag mouse to set motion detection zones and click "OK".
2. Select "Clear" to clear certain areas inside motion detection zones.
3. Click on "Clear All" to clear all the motion detection zones.

## [Object Detection]

It is a function that marks all the changes occurred from the original scene.
DVR will detect new & missing objects after a certain period of time (detecting interval).

Object Detection Blocks

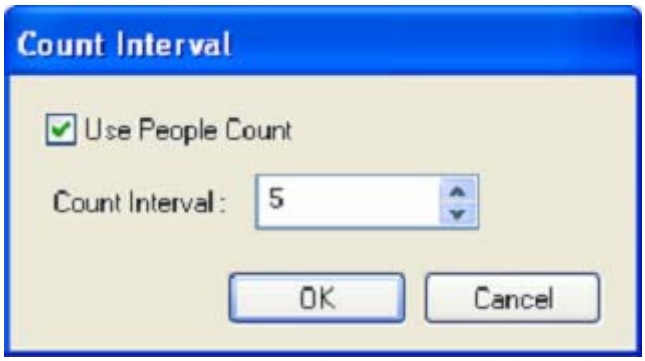
Click the right mouse and select "Clear Object Detection Blocks" to remove all the blocks.

How to Set up:

- Click the "Object Detection" box and click on "Zone Settings".
- Drag the mouse to select object detection zone (same as "Motion Detection").
- Click on the "Set Frame" button to select original (default) image.
- Go to "Detection Interval" and determine when to mark new object after its pause.
- Go to "Setup/Schedule" and select "M"
- Go to the "Control Screen" and find the red-squared "Object Detection" symbol.
- One click on the "View Original Frame" button will display original image set.
- Click it again to reactivate the "Set Frame" button.

## [People Counter]

It is a function that counts people coming in and out of a certain place.



How to Set up:

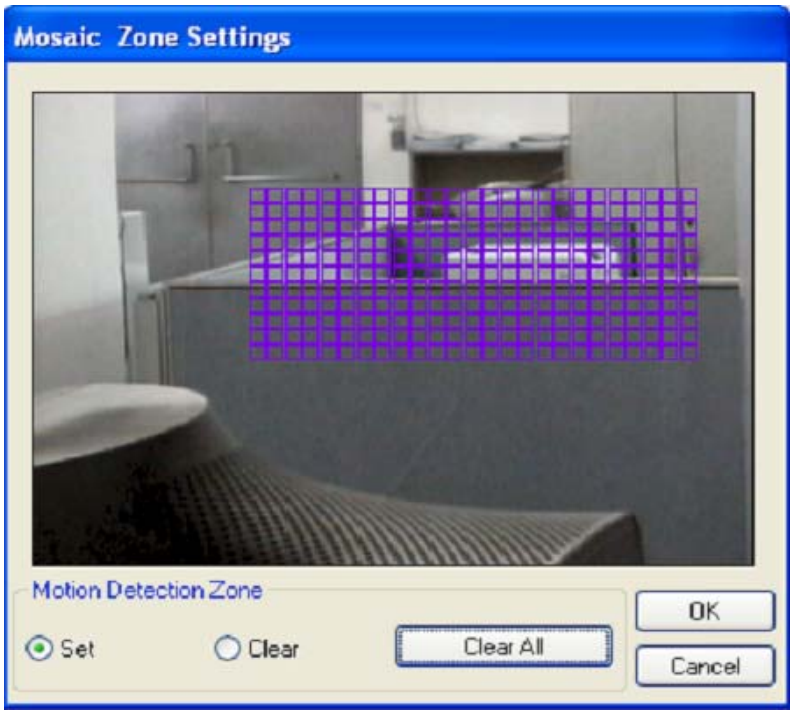
1. Click on the "People Count" button.
2. Click the "Use People Count" box.
3. Set "Count Interval".
4. Go to "Zone Settings and set "People Counting Zone".
5. Go to Setup/Schedule and select "M".
6. Go to the "Control Screen" and find the word, "Counting".

* Caution: "Object Detection" and "People Counter" can not be used simultaneously.

Note : DVR will count the number from 0 again by selecting "Reset"..

## [Mosaic]

It is a function that veils restricted areas to keep regular users uninformed.




How to Set up:

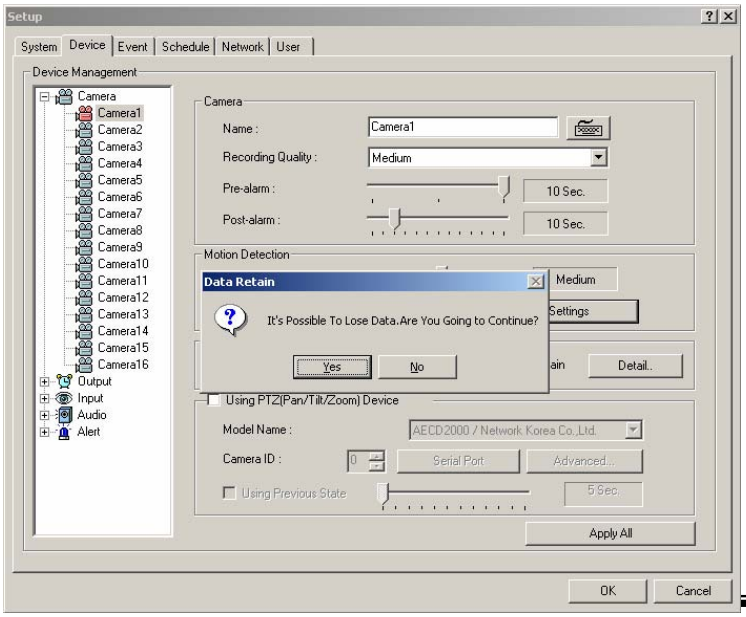
- Click the "Use Mosaic" box.
- Click on "Mosaic Zone Settings".
- Set "Mosaic Zone".
- Go to the "Control Screen" and find veiled areas.

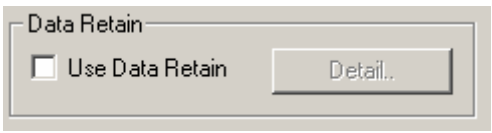
Note

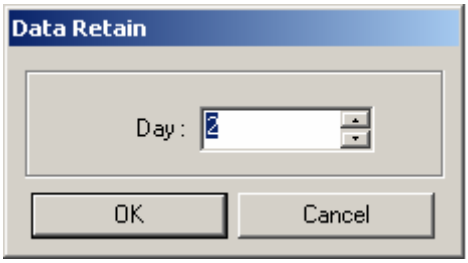
1. While using Mosaic, "Save" or "Print" can not be performed.
2. To see unveiled area, logging in as "Admin" or "Admin Mode" is required.

## [Data Retain]

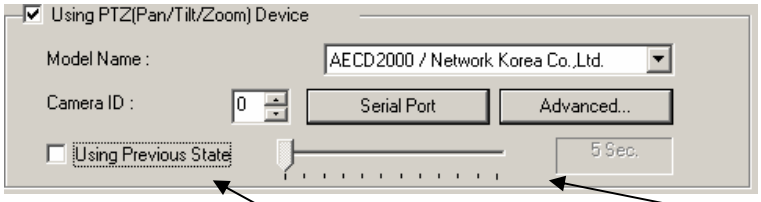
It is a function that retains data only for the period set. For example, if 10 days is set, DVR will delete all previous data before 10 days regardless of the capacity remaining in HDD.



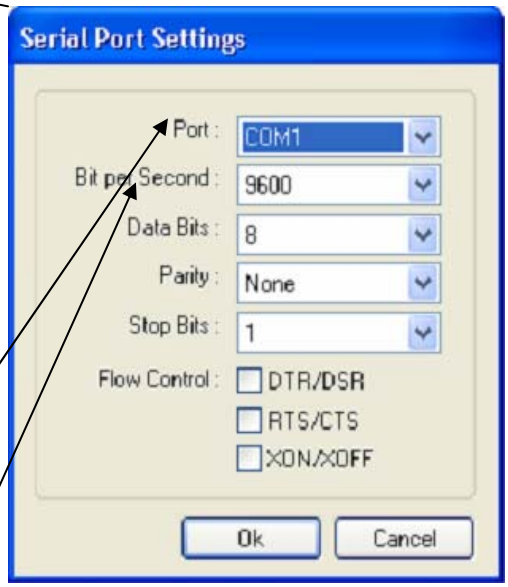



## [PTZ Camera Setup]




When using a PTZ camera, check the box and select a model name. DVR system supports nearly 40 different protocols.

* Camera ID: Leave it as it is if only one PTZ camera is used. Otherwise, give each camera a different number.
* Using Previous State : Click the box and set time period to move camera back to initial position after a certain period of time.



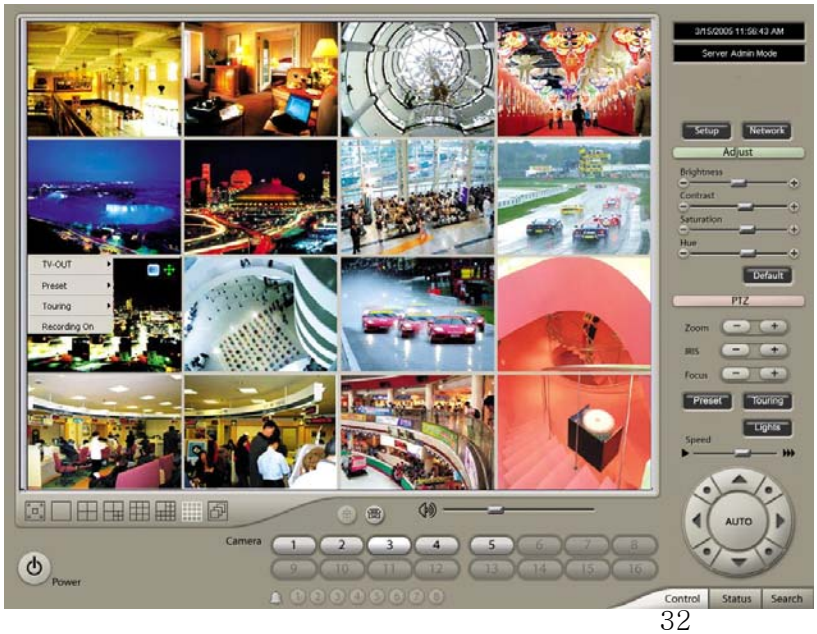

Select the port used for PTZ camera.

* Bit per Second: It is 9600 for most of PTZ cameras. But a few can have different values.
Refer to camera manual.

* Apply All: The same settings will be applied to the rest of the cameras by clicking on "Apply All".

## [Preset & Touring]

Either right click mouse on camera picture or click on the Preset (Touring) button for Preset (Touring) setup and use.

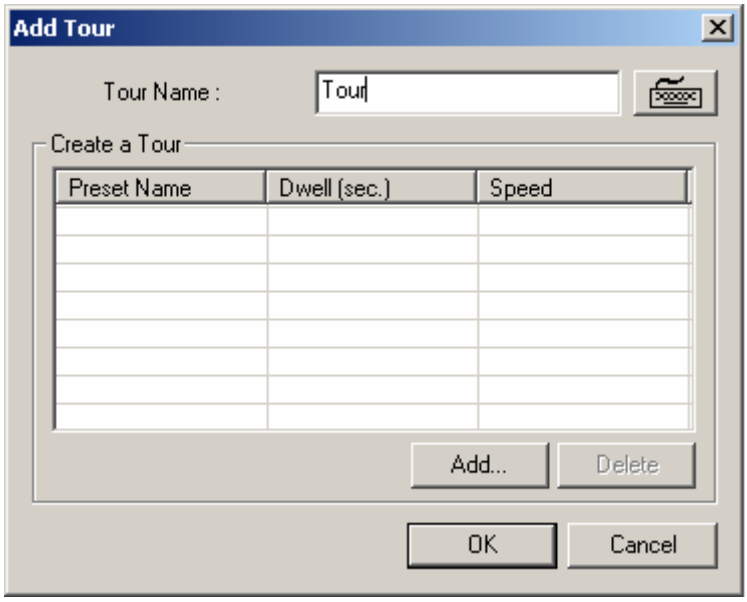


| [Preset] | "Preset" is a function that enables a camera to move from one position to another automatically. |
|---|---|

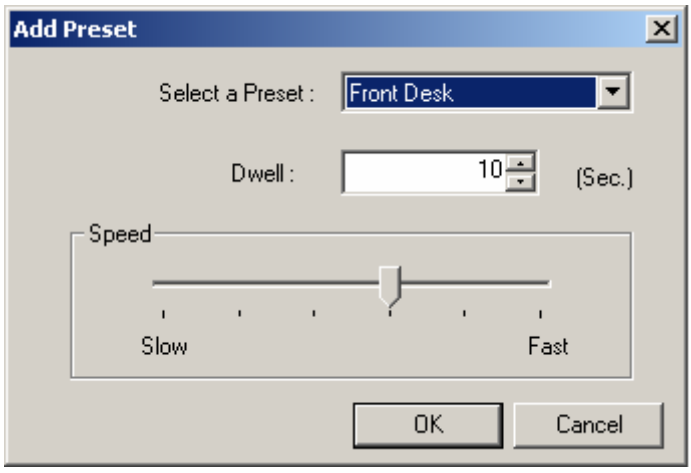
* Steps to Set up Presets *
1. Move camera to a desired position using the PTZ Control on Control screen.
2. Click the right mouse.
3. Name the preset.
4. Repeat the above for setting up as many as 256 presets.
5. Right click the mouse to run preset and click the "Auto" button to stop it.

## [Touring]

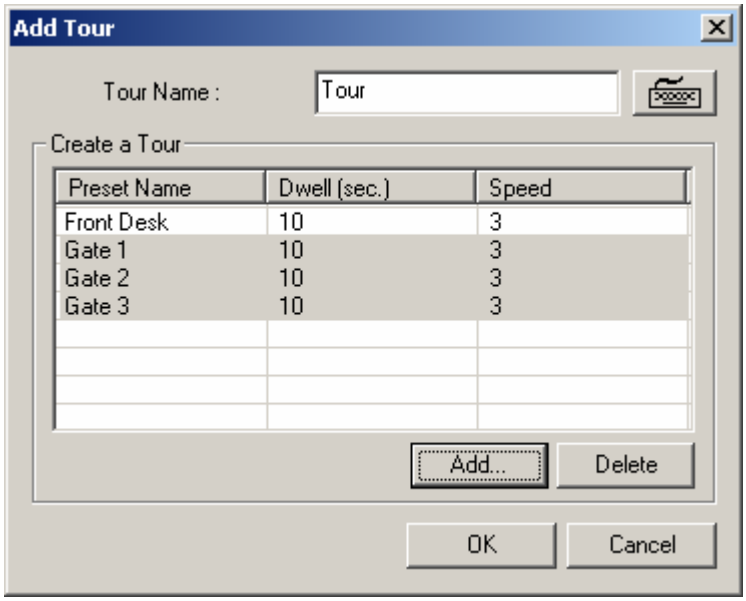
"Touring" is a function that enables a group of selected presets to work repeatedly.




* Steps to Set up a Tour *
1. Right click mouse.
2. Name the tour.
3. Click on "Add".
4. Select a preset.
5. Click "OK".
6. Repeat the above to have more than 1 preset in the tour.
7. Click the right mouse to run the tour.



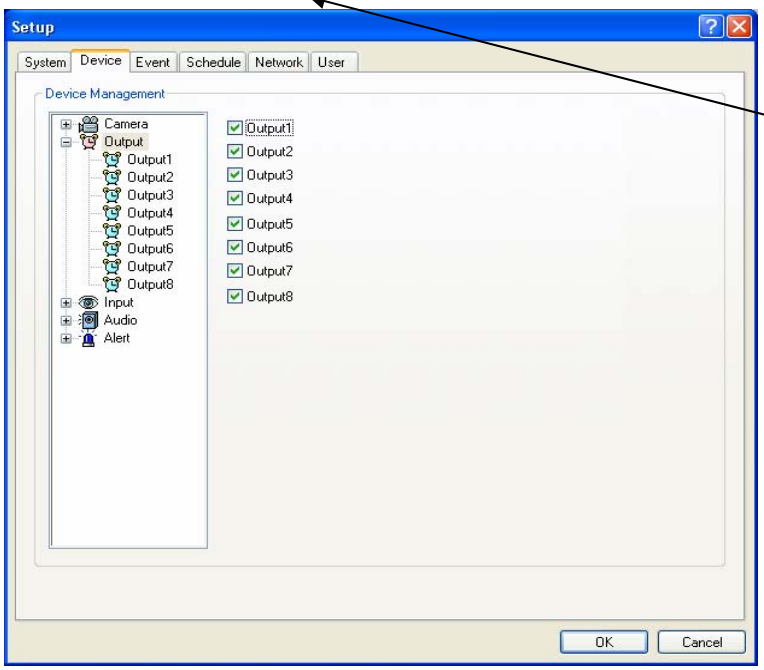

* Dwell: The length of time that camera will stay before moving to the next preset point.
* Speed: Moving speed for selected preset.


Add Tour
Tour Name :
Tour
Create a Tour
Preset Name
Dwell (sec.)
Speed
Front Desk 10 3
Gate 1 10 3
Gate 2 10 3
Gate 3 10 3
Add...
Delete
OK
Cancel

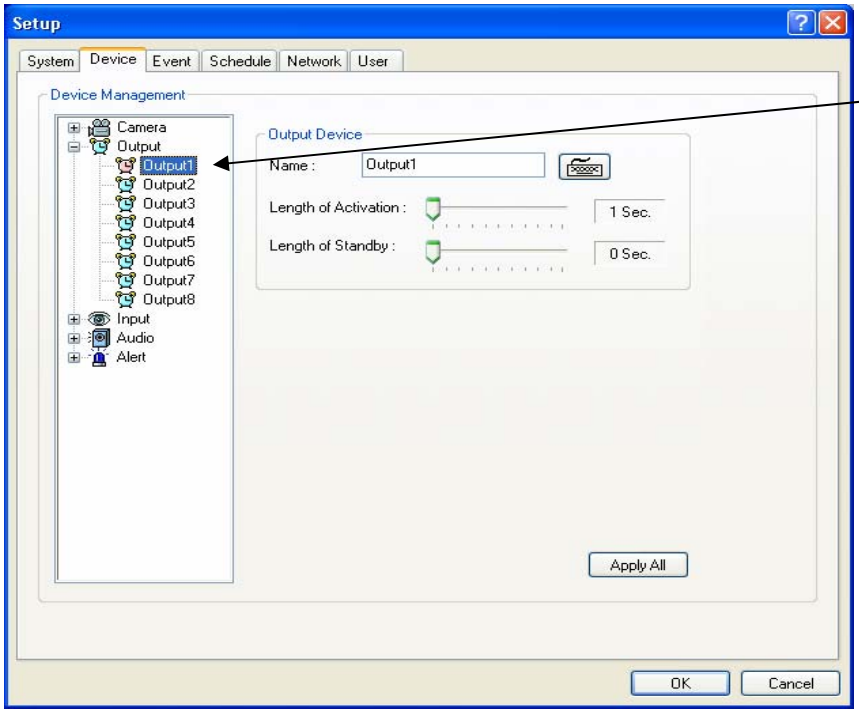
3/15/2005 11:56:43 AM
Server Admin Mode
Setup
Network
Adjust
Brightness
Contrast
Saturation
Hue
Default
PTZ
Zoom
IRIS
Focus
Preset
Touring
Lights
Speed
AUTO
TV-OUT
Preset
Touring
Recording On
Run (Tour)
Stop Touring
Add Tour...
Delete Tour
Camera
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
Power
Control
Status
Search

Advanced PTZ setup can be done by one right click the mouse. Make sure that the PTZ camera supports advanced PTZ control functions first.

### 3.5.2.2 Output Device



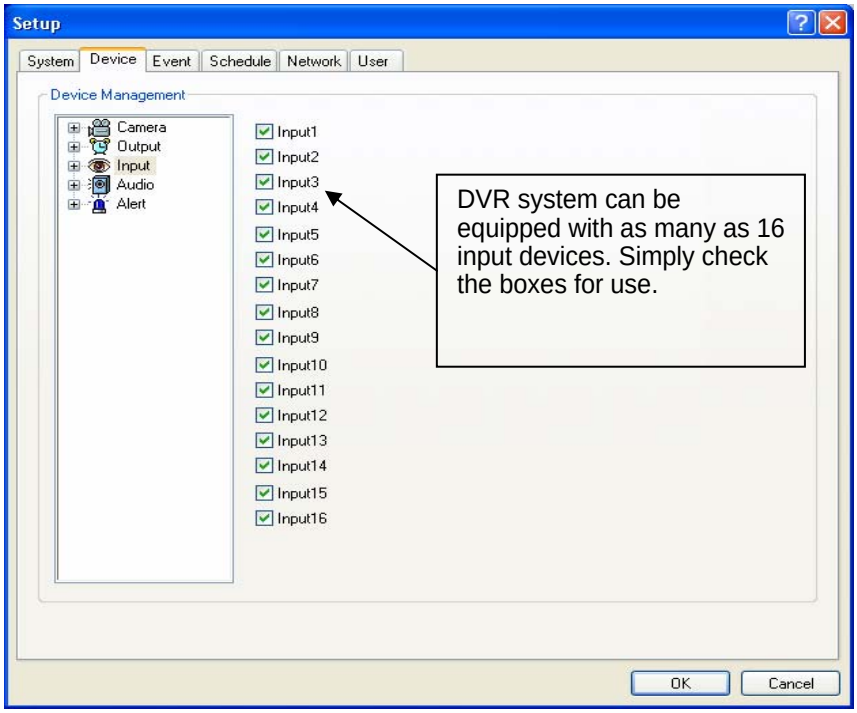

DVR system can be equipped with as many as 8 output devices. Simply check the boxes for use. In addition, outputs can be manually activated from Control screen (Manual Alarm).

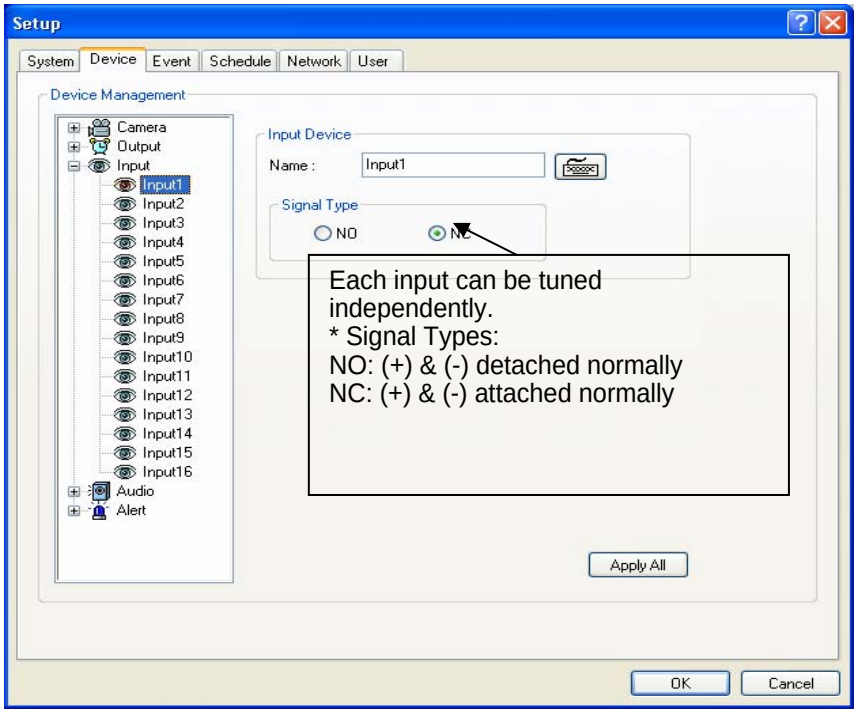



Double-click on "Output" for individual output setup.

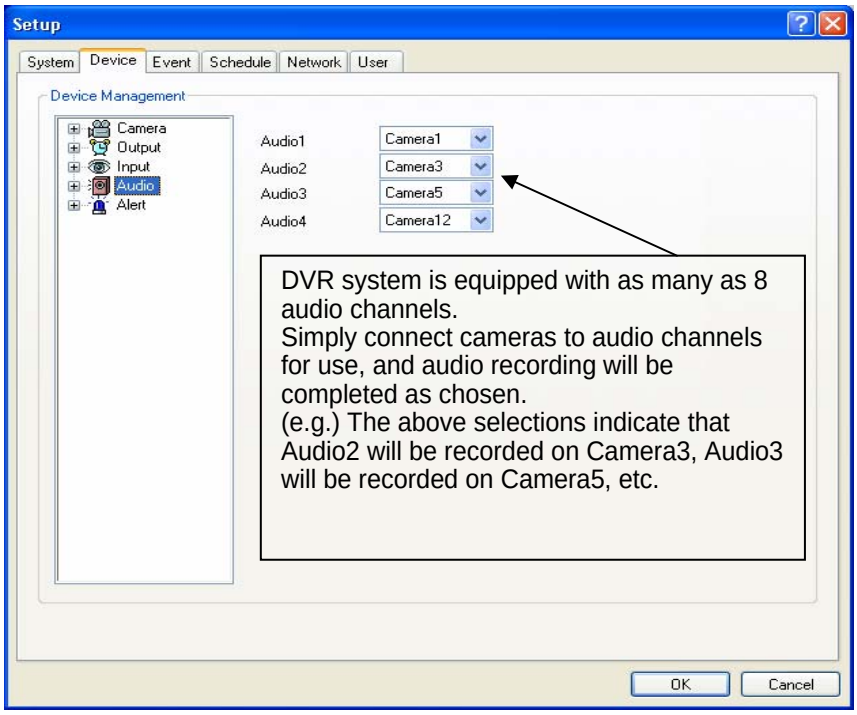
* Name: Output device name.
* Length of Activation: The length of output activation (1-60 sec.).
* Length of Standby: The length of output deactivation until reactivation (0-60 sec.).
* Apply All: The same settings will be applied to the rest of the output devices.

### 3.5.2.3 Input Device

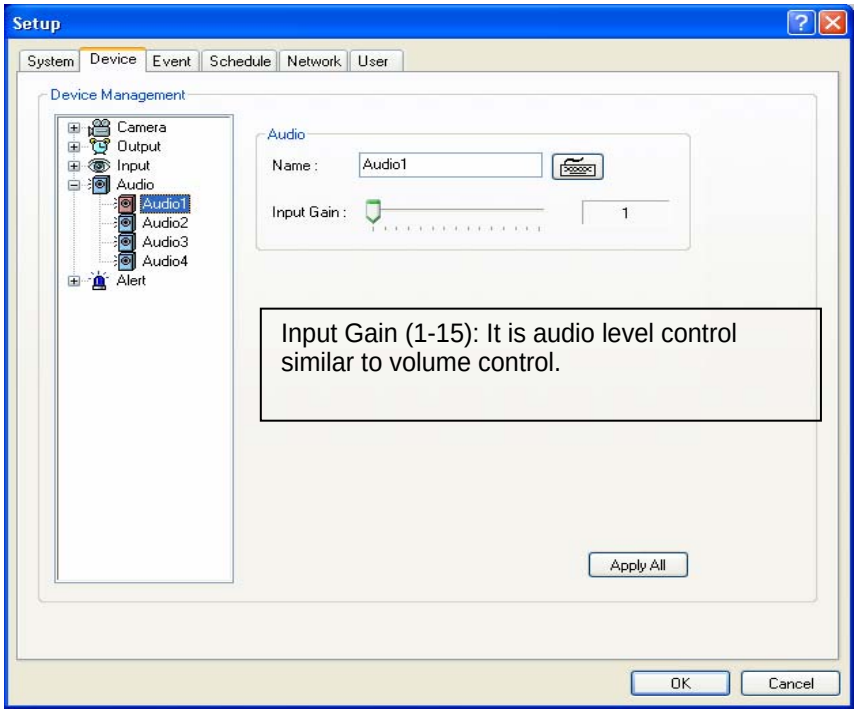


### 3.5.2.4 Audio

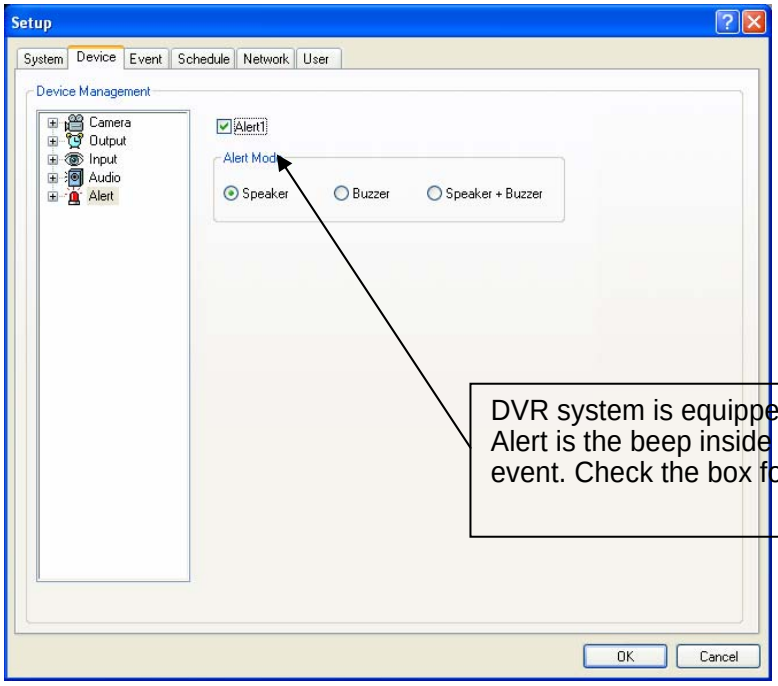



DVR system is equipped with as many as 8 audio channels.
Simply connect cameras to audio channels for use, and audio recording will be completed as chosen.
(e.g.) The above selections indicate that Audio2 will be recorded on Camera3, Audio3 will be recorded on Camera5, etc.

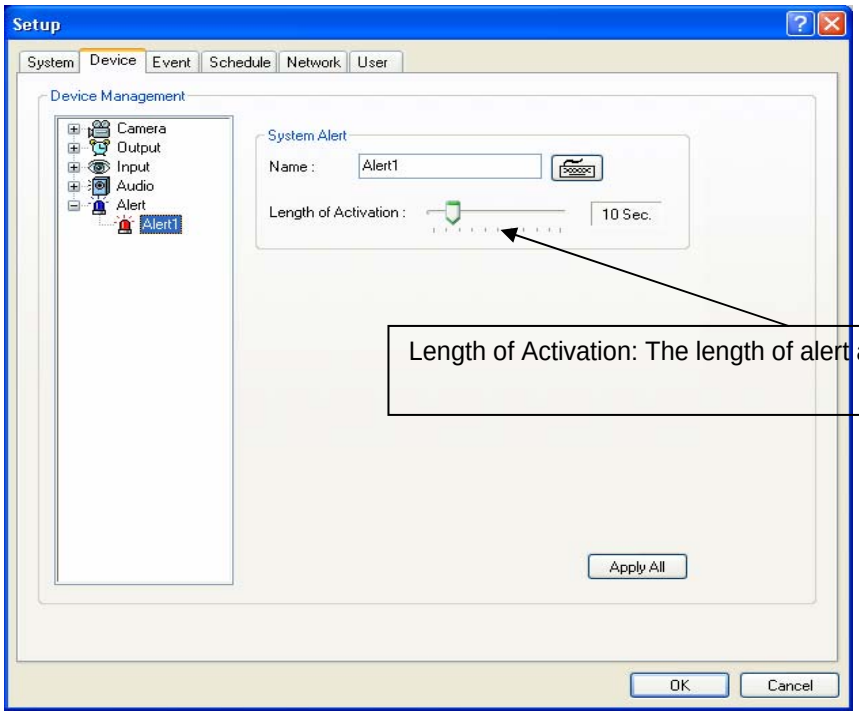



Input Gain (1-15): It is audio level control similar to volume control.

## 3.5.2.5 Alert




DVR system is equipped with 1 alert device.
Alert is the beep inside the system that sounds in the case of event. Check the box for use and select an alert mode.

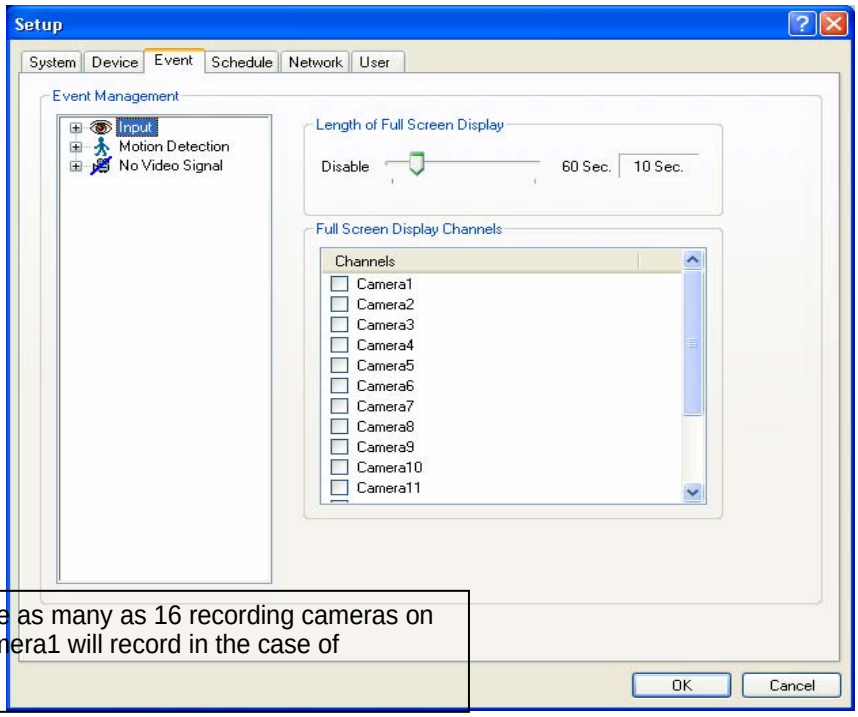



Length of Activation: The length of alert activation (1-60 sec.).

## 3.5.3 Event

"Event" consists of 3 different groups; "Input", "Motion Detection" and "No Video Signal". On this menu, devices can be set to respond to different events.

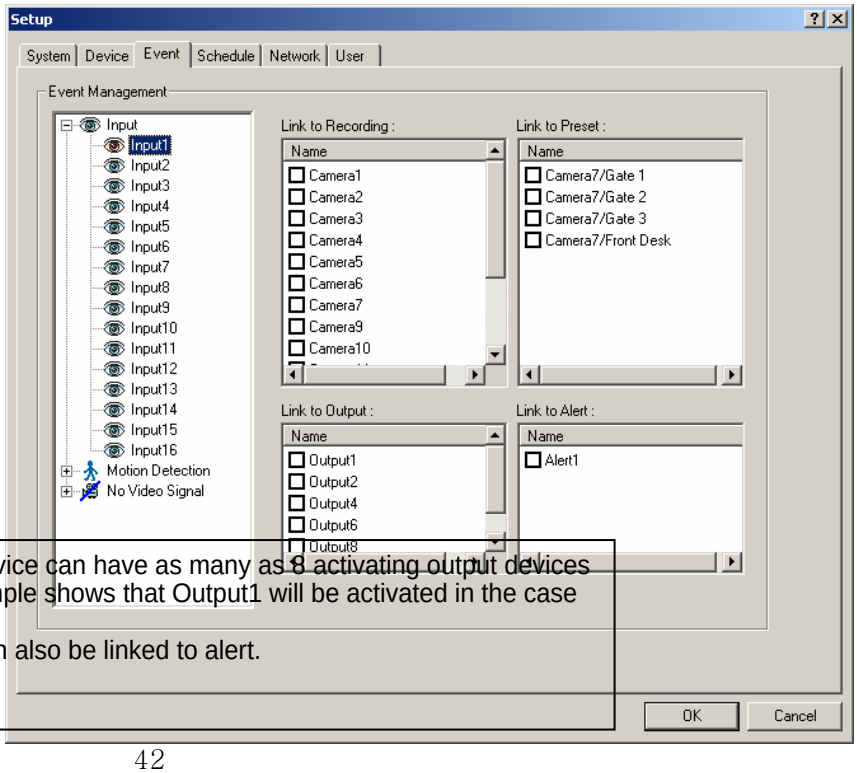
### 3.5.3.1 Input




* Length of Full Screen Display:
The time length for full screen display in the case of input device activation.

* Full Screen Display Channels: Camera channels to be full-screen displayed.

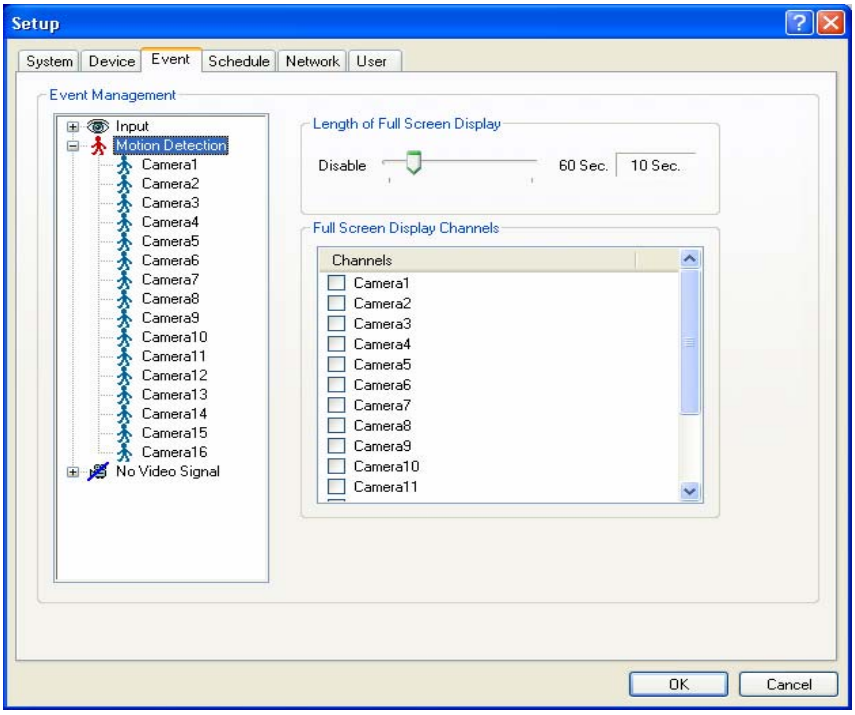
* Link to Recording: One Input device can have as many as 16 recording cameras on activation. The below example shows that Camera1 will record in the case of Input1 activation.

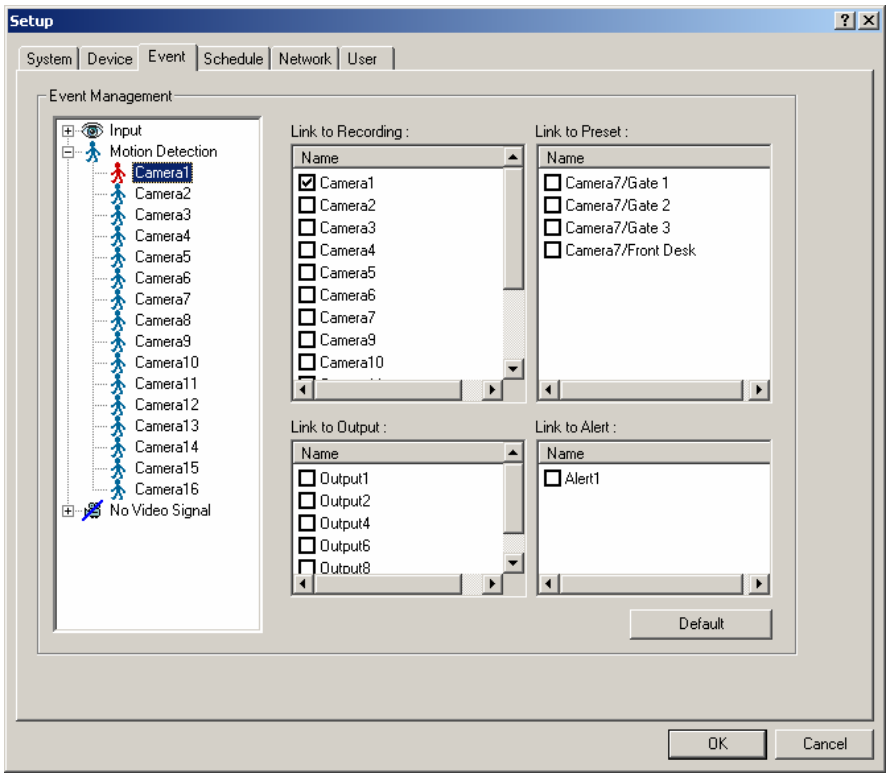



* Link to Output: One Input device can have as many as 8 activating output devices on activation. The above example shows that Output1 will be activated in the case of Input1 activation.
* Link to Alert: Input device can also be linked to alert.

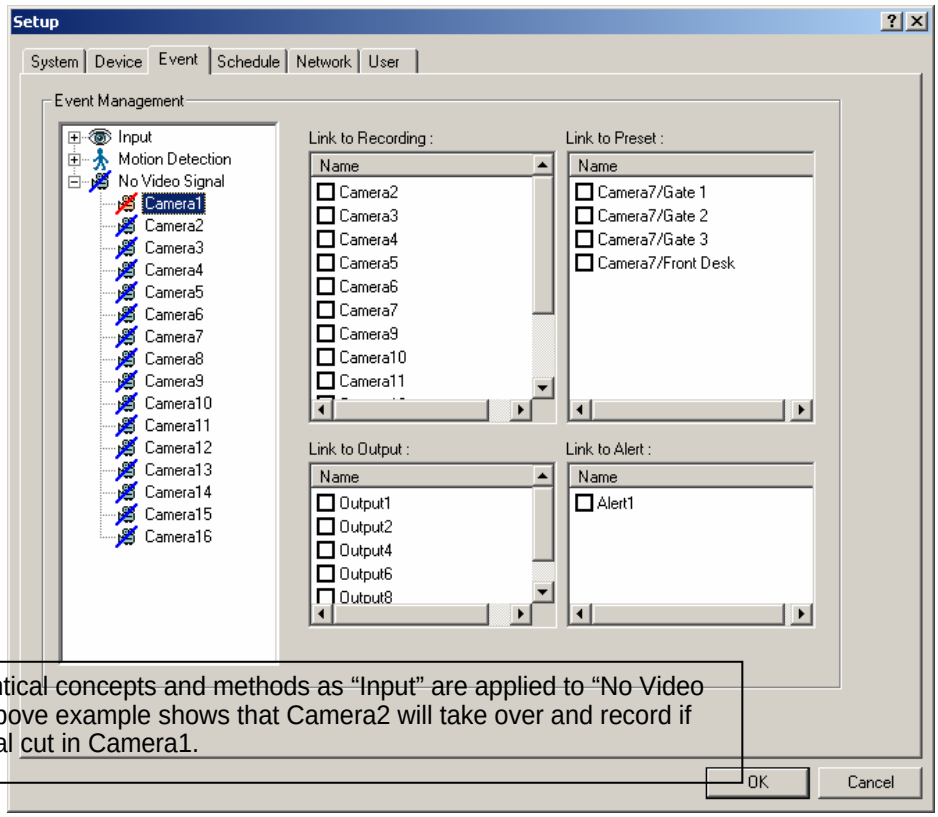
### 3.5.3.2 Motion Detection

The same identical concepts and methods as "Input" are applied to "Motion Detection".



### 3.5.3.3 No Video Signal

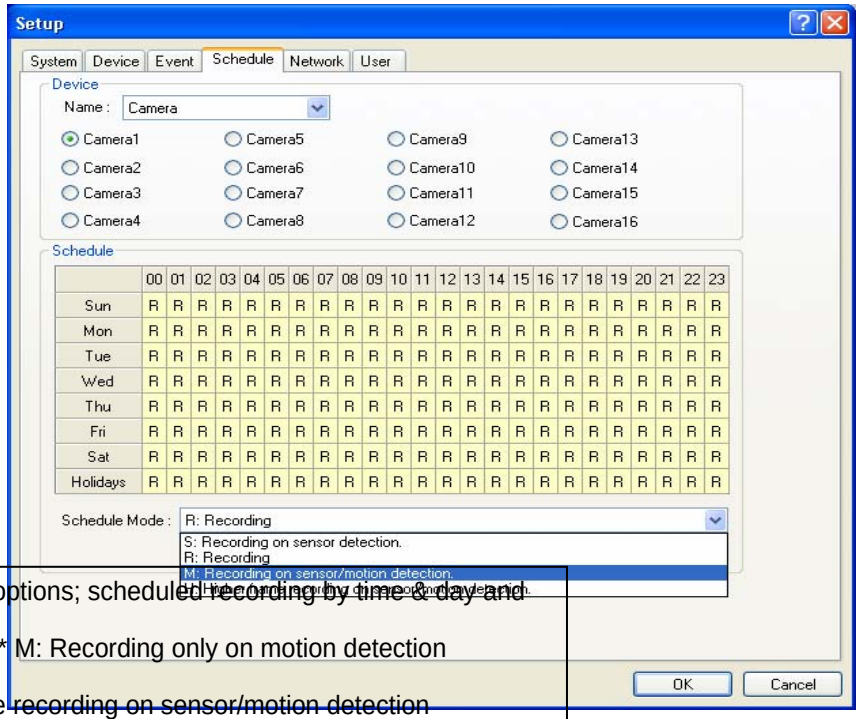



The same identical concepts and methods as "Input" are applied to "No Video Signal". The above example shows that Camera2 will take over and record if there is a signal cut in Camera1.

### 3.5.4 Schedule

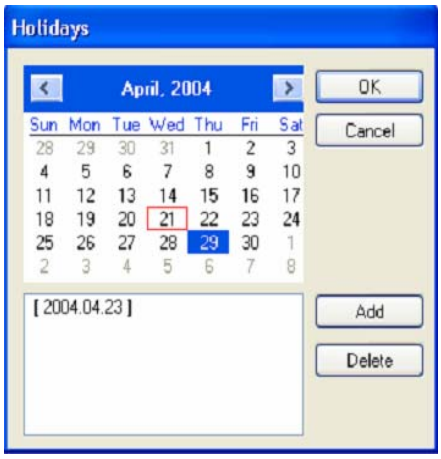
"Schedule" is a place where the different activities of different devices are determined.

### 3.5.4.1 Camera




Each camera can have different recording options; scheduled recording by time & day and selective recording.

* R: Recording at all times
* M: Recording only on motion detection
* S: Recording only on sensor detection
* H: Recording at all times and higher frame recording on sensor/motion detection




The holiday recording schedule set at the bottom of the "Schedule" table will be applied to selected dates.

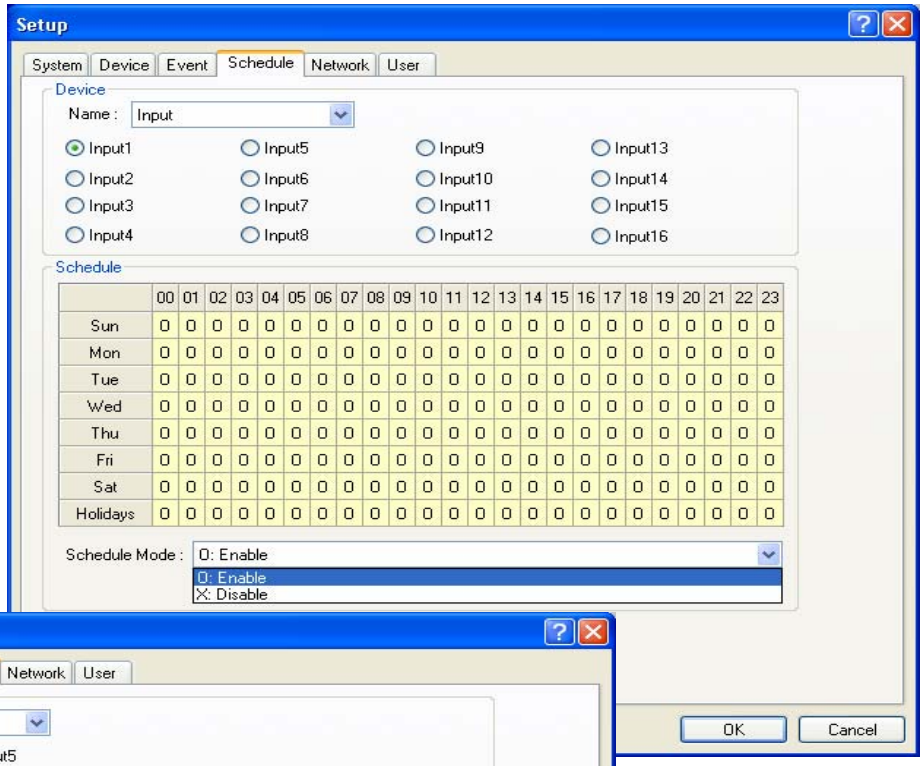
## [Manual (Instant) Recording]

It is a function that enables users to react on an emergency situation properly by making DVR start recording immediately.

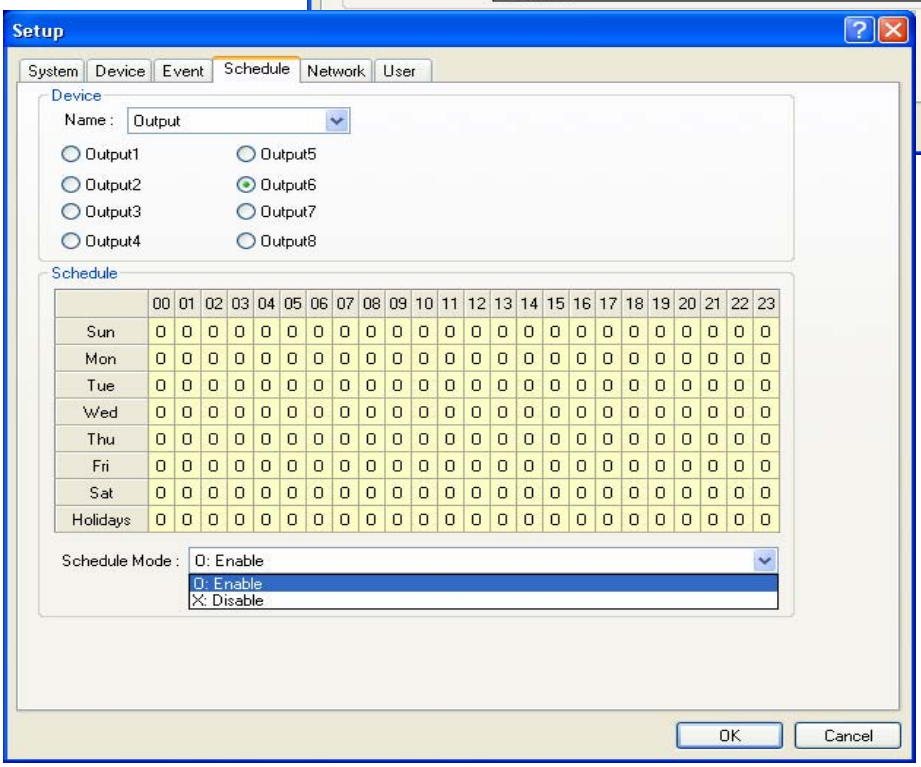
Start "Manual Recording" by selecting "Recording On". Stop "Manual Recording" by selecting "Recording Off".

Note : 1. The purple icon indicates that it is on "Manual Recording".
2. Only 'Admin' can use "Manual recording".

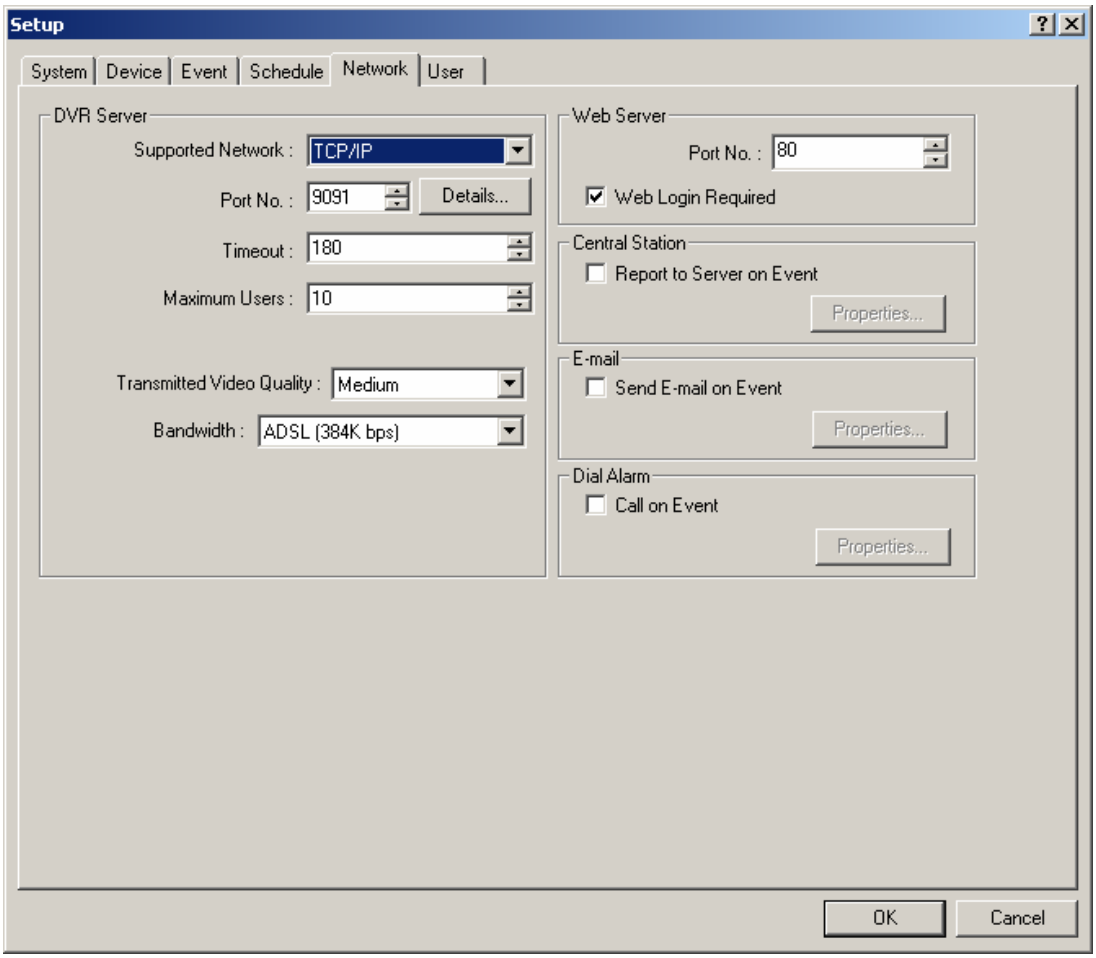
### 3.5.4.2 Input



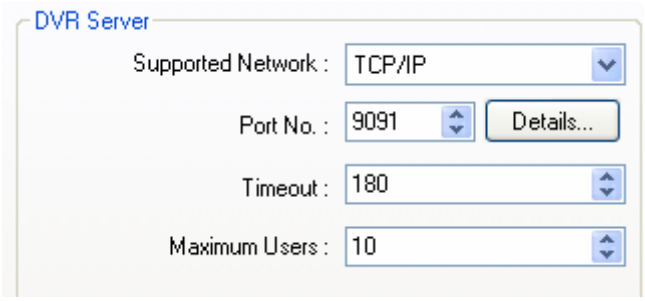

### 3.5.4.3 Schedule



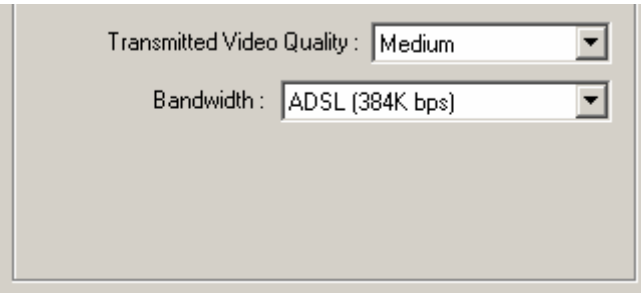
## 3.5.5 Network




### 3.5.5.1 **DVR** Server



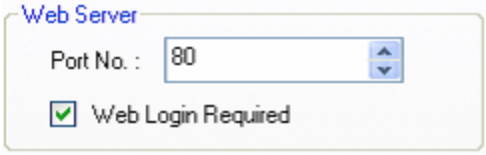

* Supported Network:
1. TCP/IP - Connecting to DVR Server from Client using Lan or DSL
2. PSTN - Connecting to DVR Server from Client using PSTN or ISDN modem
3. None - Not allowed to connect to DVR Server remotely
* Port No.: The default port number is 9091.
* Timeout: The time length of trials to connect to DVR Server from Client
* Maximum Users: The maximum number of users that can be logged in remotely.
* Details: It shows all the port numbers that are available to use.




* Transmitted Video Quality: Video quality to be transmitted to Client.
As a reminder, the higher video quality gets, the slower network transmission speed becomes. Therefore, it is often recommended to select low video quality when using "Narrowband".
* Bandwidth: Make sure to select the right bandwidth to have the right network performance.

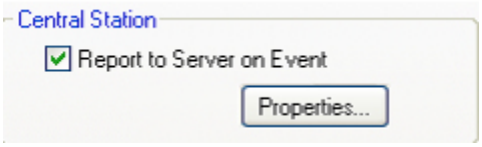
Note: DVR will automatically appoint a proper IP address to router. No router setup required.

### 3.5.5.2 Web Server

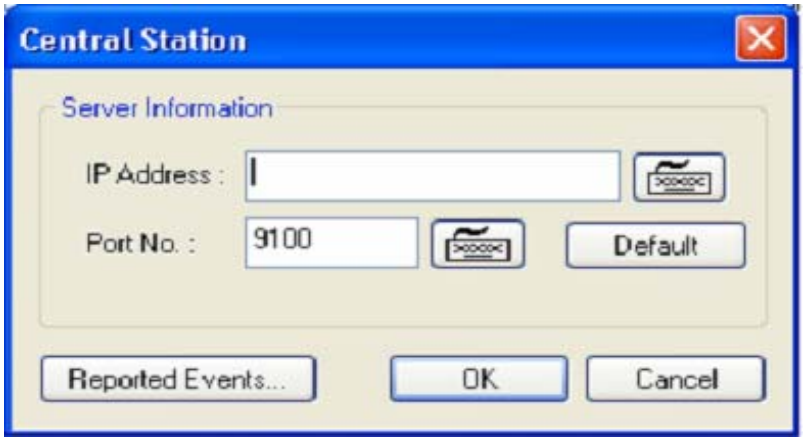



* Port No.: Fixed HTTP Port No.
* Web Login Required: If the box is checked, login is required when connecting to DVR server using web browser. If the box is NOT checked, automatic login as "anonymous" will be done.

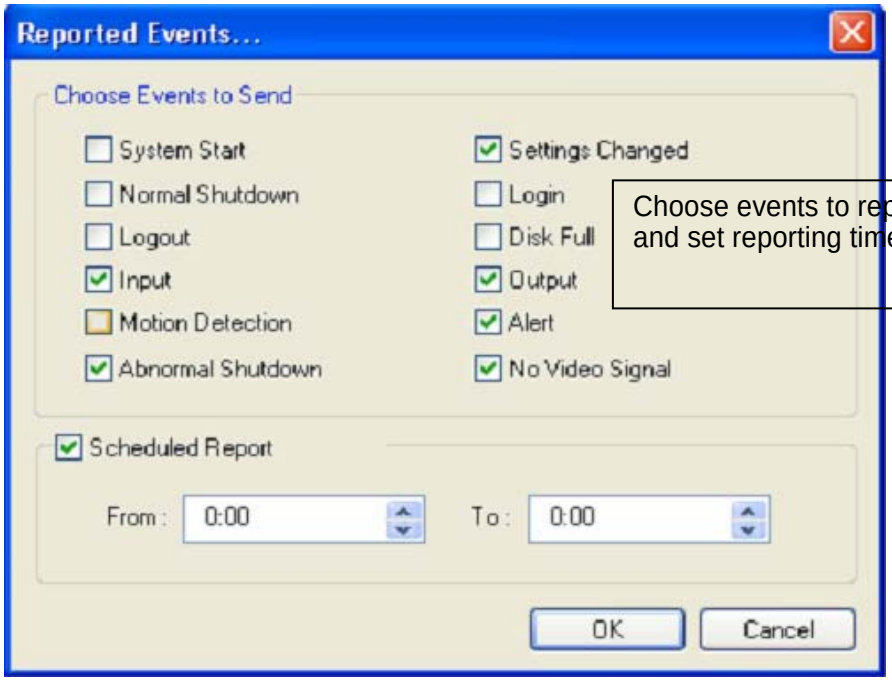
### 3.5.5.3 Central Station




" Central Station" is a function that enables Client with static IP to manage multi DVR sites. Check the box and click on "Properties" for setup.
* Note: "DVR Manager" must be installed on Central Station Server (Client). For more details, refer to Appendix 3.

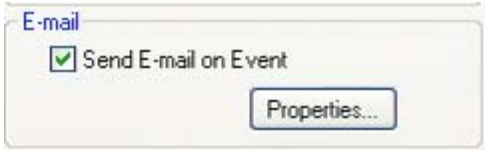



Type in the IP address of Central Station Server (Client with Static IP) and click on "Reported Events" for more setup.



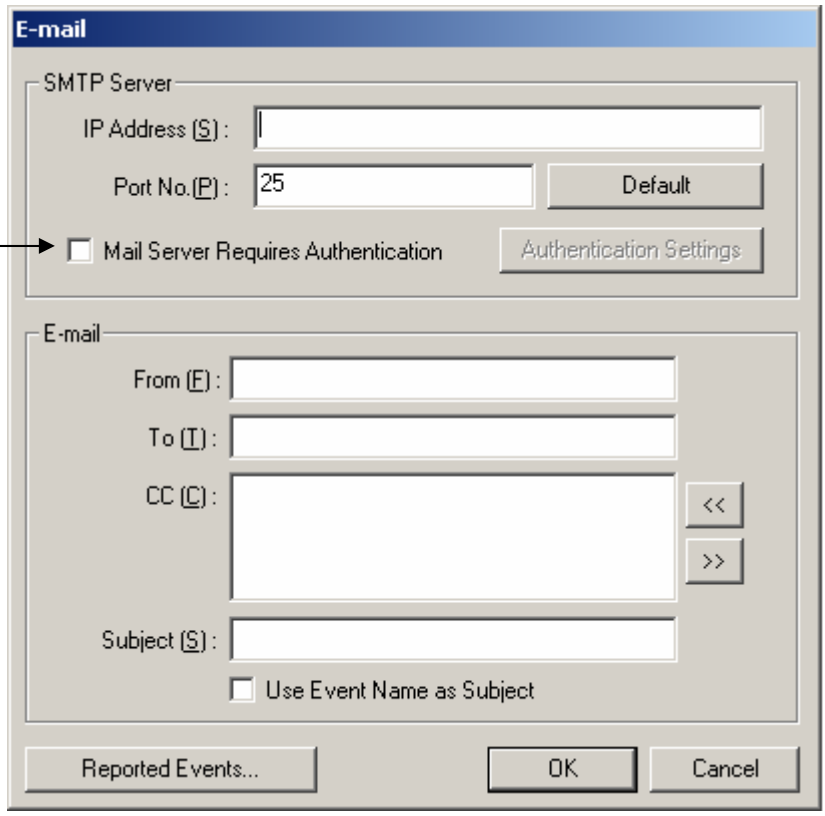

Choose events to report to Central Station server and set reporting time period.

### 3.5.5.4 E-mail




E-mail is a function that enables DVR system to send out e-mails when selected events occur. Check the box and click on "Properties" for setup.

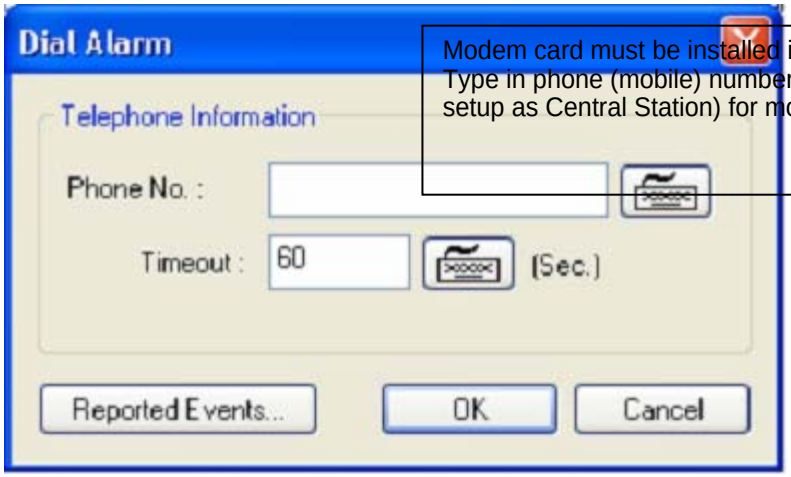
Note: Some e-mail servers may require authentication for ID and PW.




Make sure to put in the right IP address of SMTP server. Then, click on "Reported Events" for more setup. The "Reported Events" menu is the same as Central Station.

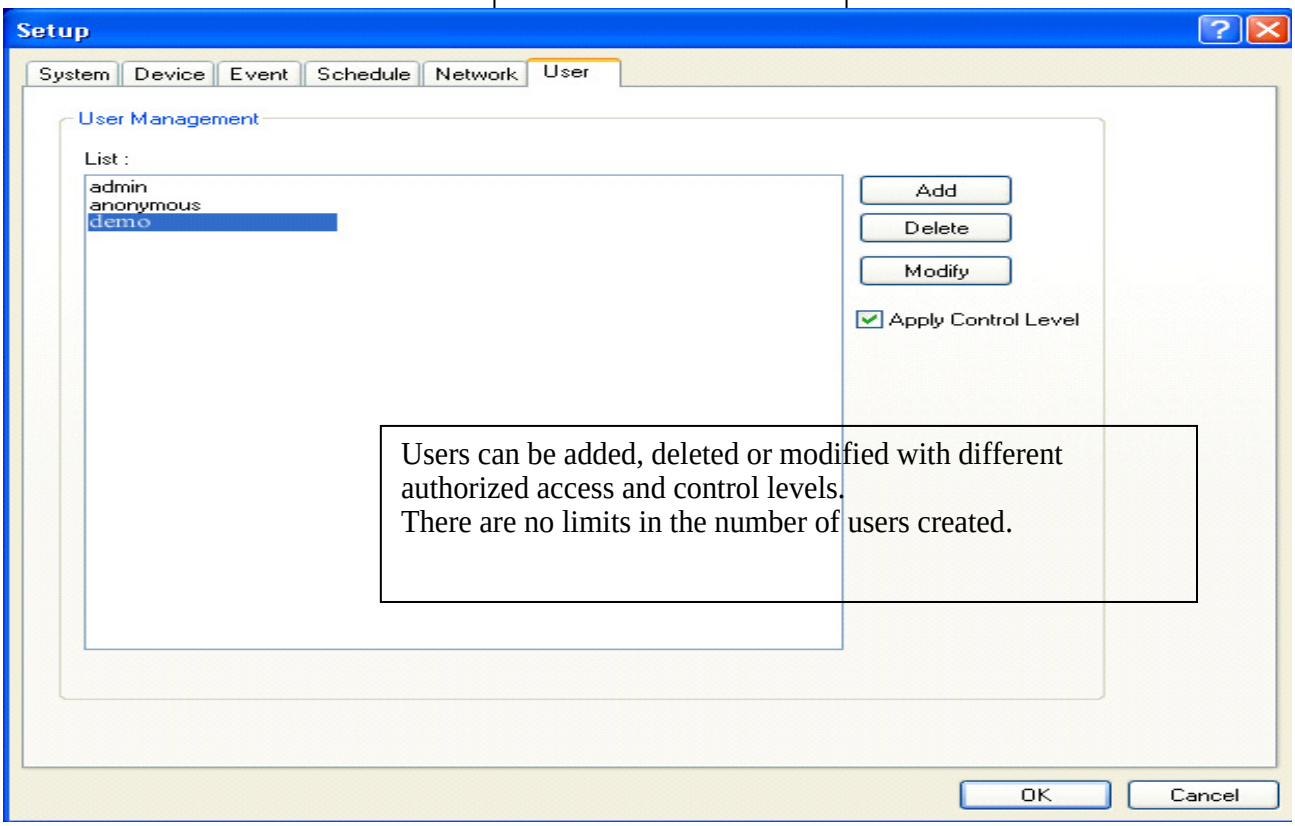
### 3.5.5.5 Dial Alarm

"Dial Alarm" is a function that enables DVR system to call out on selected events. Check the box and click on "Properties" for setup.

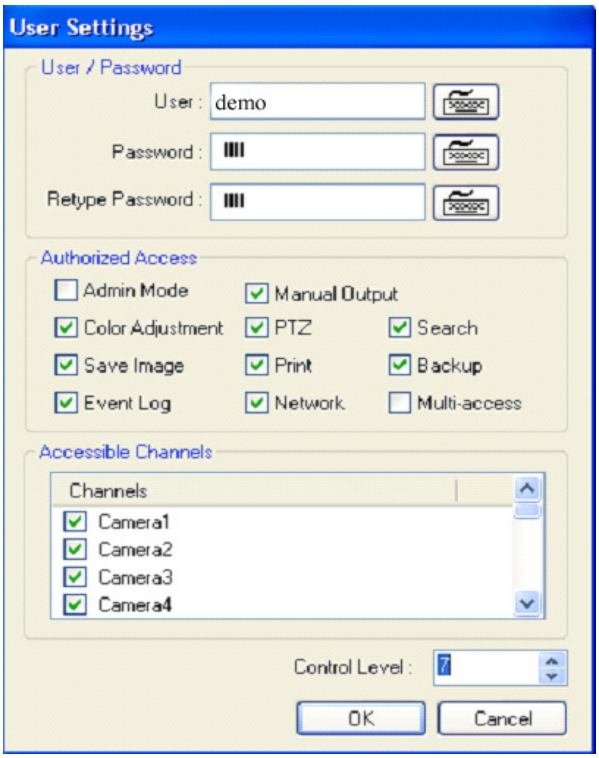



Modem card must be installed inside DVR system to make this function work. Type in phone (mobile) number to report. Click on "Reported Events" (same setup as Central Station) for more setup.

### 3.5.6 User




Users can be added, deleted or modified with different authorized access and control levels.
There are no limits in the number of users created.



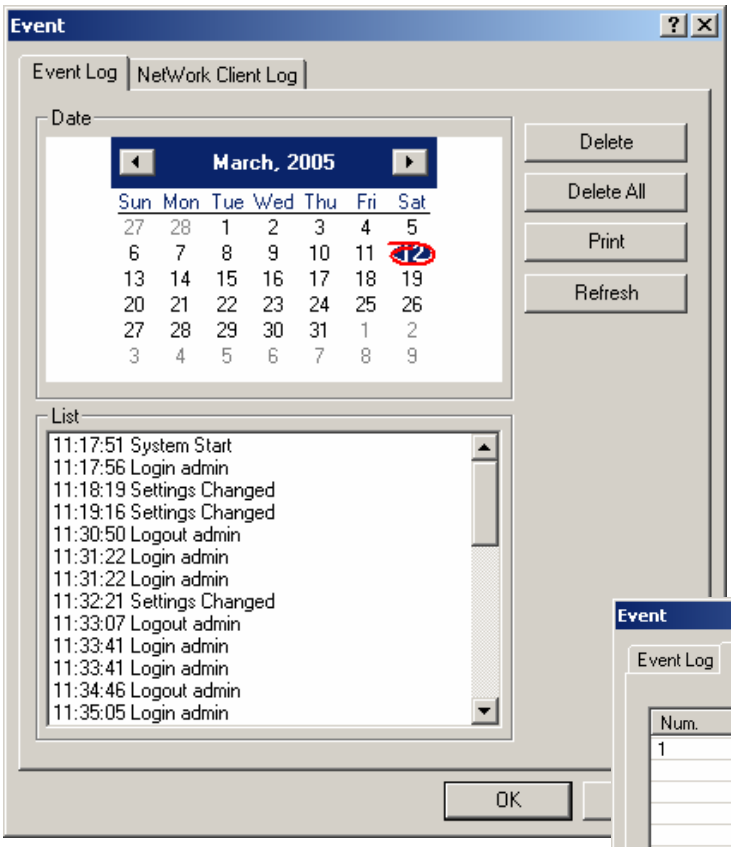

* Authorized Access: Checked functions will be allowed to access remotely.
* Accessible Channels: Checked channels will be allow to view remotely.
* Control Level: The lowest number will be allowed to have the first priority to set up, control, etc remotely.
* Admin Mode: A user who can go into the setup and program (given the same authorization as "Admin"). Only ONE user with "Admin Mode" can log in remotely.
* Network: If checked, remote access authorization will be given.
* Multi-access: If checked, multi-users with the same user name can log in remotely at the same time.

# CHAPTER 4
# View Log Application (Status)

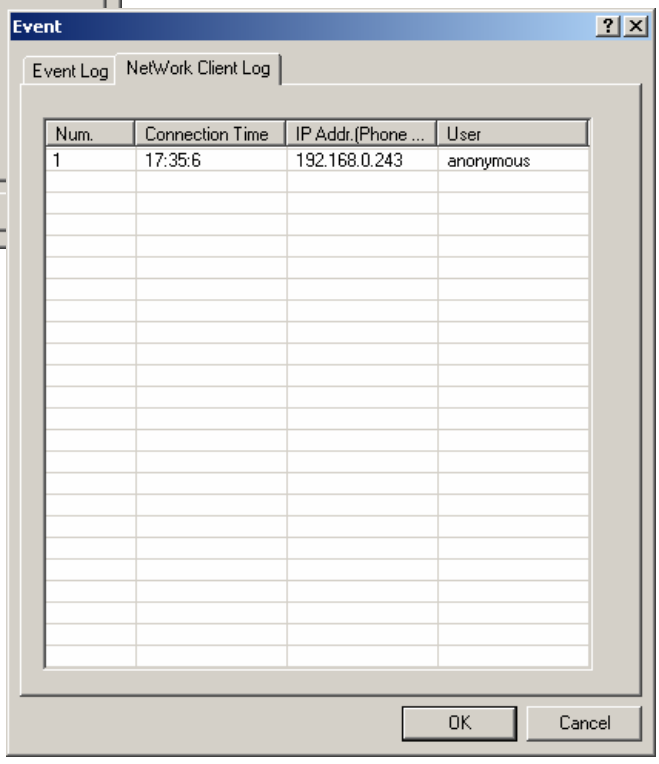
## 4.1 Screen Features

Recording Camera: It shows recording status.
Sensor Detection: It shows sensor detection status.
Motion Detection: It shows motion detection status.
Alarm: It shows alarm activation status.
HDD Capacity: It shows HDD capacity used for recording.
Event: It shows events occurred.
Event Log: It shows all the previous events occurred by date.

### 4.1.1 Event Log

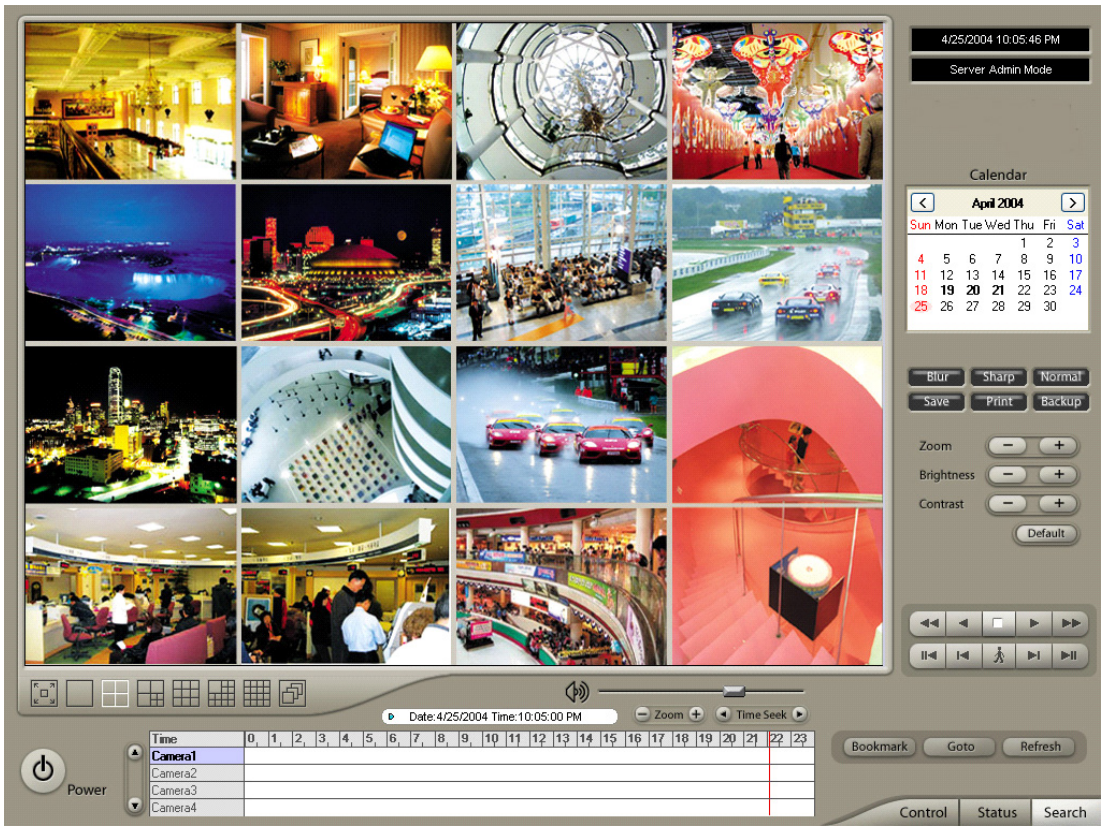



* Date: All dates with events will be marked in bold numbers.
* List: All events for a certain selected date will be shown.
* Delete All: If clicked, all the previous records will be deleted.
* Delete: If clicked, only the events for a certain selected date will be deleted.
* Refresh: If clicked, events will be updated.




* Network Client Log : Remote login records will be also kept on DVR server.

# CHAPTER 5
# Playback Application (Search)

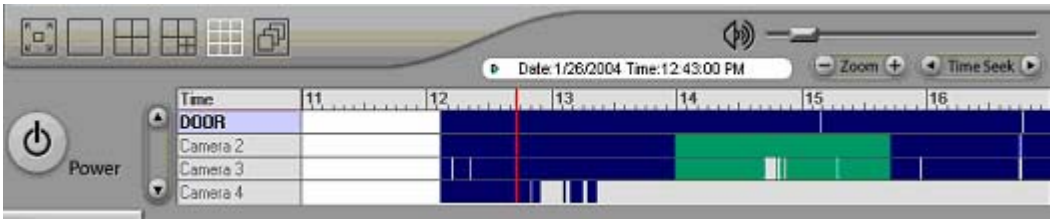



## 5.1 Search Features 1

Calendar: All dates with recorded data will be marked in bold numbers.
Blur/Sharp/Normal: Buttons to adjust sharpness of image
Zoom: Buttons to zoom in/out
Brightness: buttons to adjust brightness
Contrast: buttons to adjust contrast
Default: Default for Zoom/Brightness/Contrast

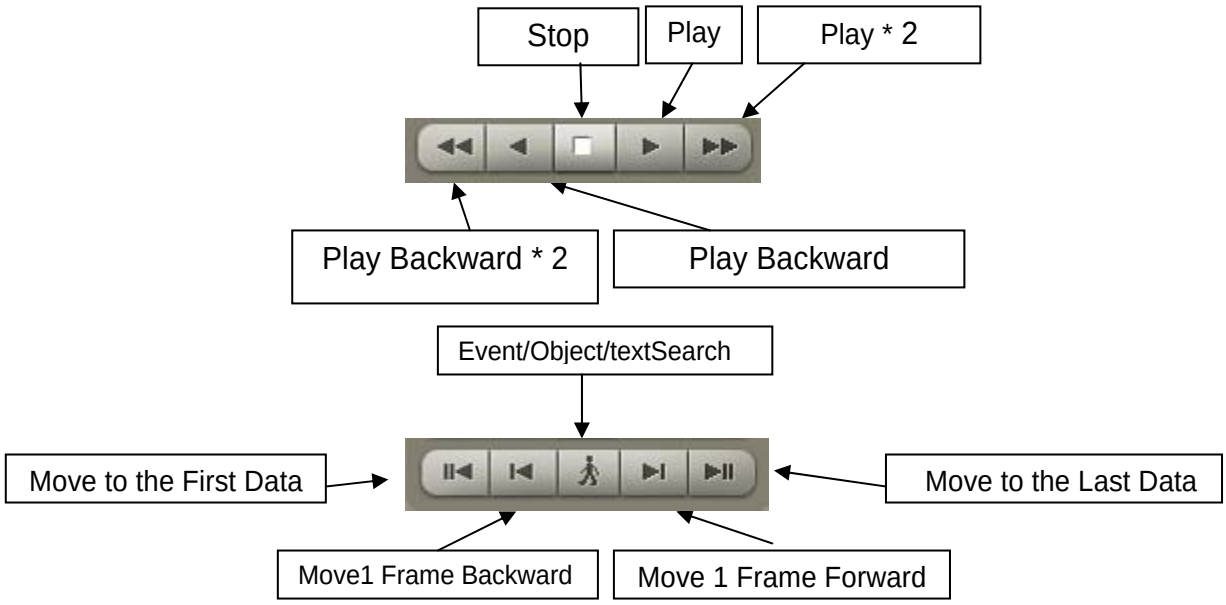
## 5.2 Search Features 2

### 5.2.1 Playback



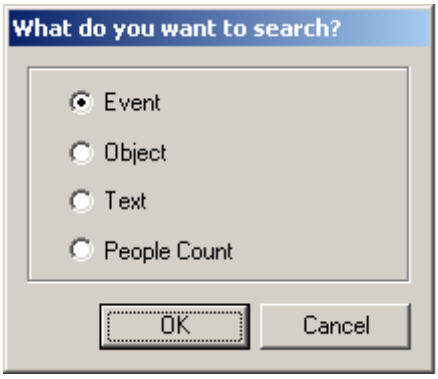
For playback, simply select date, screen mode (1, 4, 9, 16, etc.), time by one click on the time bar and click the play button.
What different colors mean on the time bar:

1. Blue: Recorded data by sensor & motion detection
2. Purple: Recorded data by 24-hour-recording
3. White: No recorded data in all cameras
4. Gray: No recorded data for some cameras
5. Green: Blue + audio
6. Light Green: Purple + audio
7. Dark Red : Purple + recorded text data (POS)
8. Orange : Even- recorded data with recorded text data.
9. Dark Yellow : Event-recorded data + recorded text data + audio
10. Yellow : Purple + recorded text data + audio

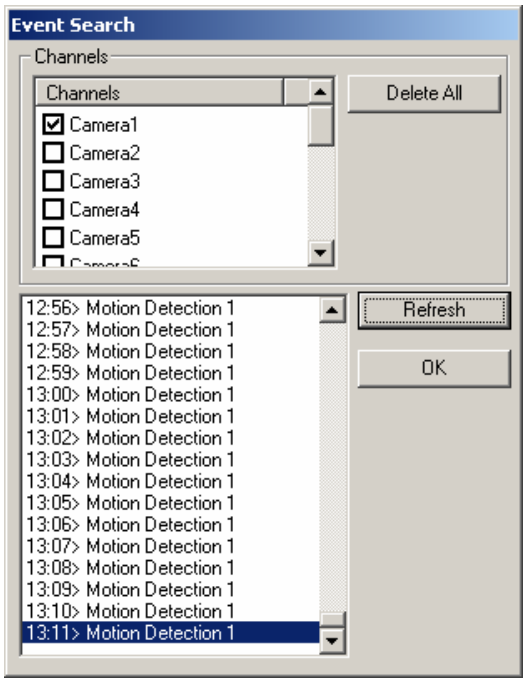



### 5.2.2 Event/Object/Text /People Count Search

**[Event Search]**

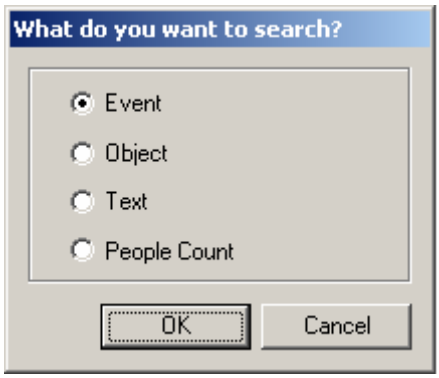


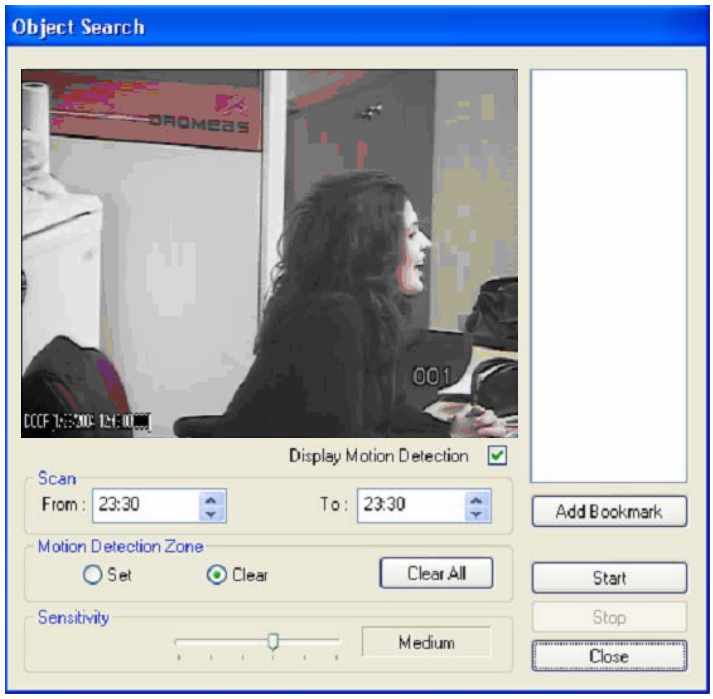

Click the Event/Object Search button and select "Event".



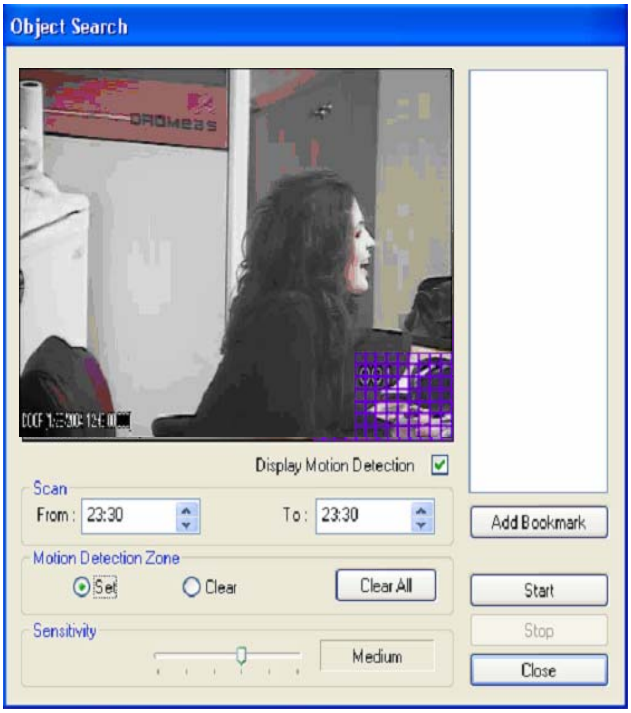

Select channels for Event Search.
Select one event from the event list and click "OK", and the selected event will be displayed. Click Refresh" to update the list.

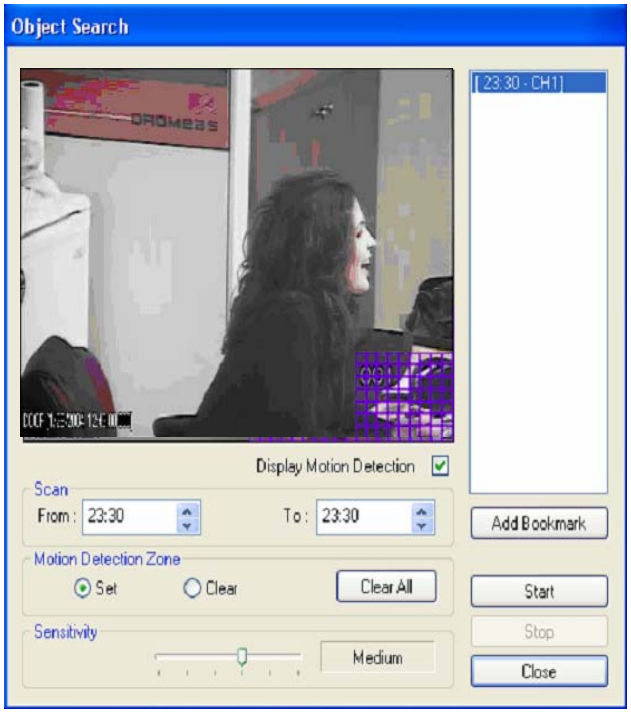
**[Object Search]**



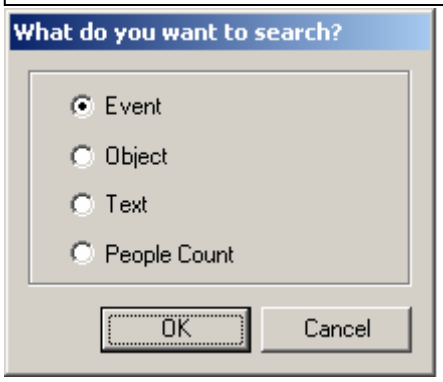

Object Search is only to search certain selected objects for a certain period of time.
Scan: Set the time period for object search
Motion Detection Zone: Select "Set" and mark areas for object search by dragging mouse. "Clear" is used to erase certain areas inside motion detection zones.
Sensitivity: Set motion detection sensitivity level.
Clear All: Click on it to clear all the motion detection zones set.

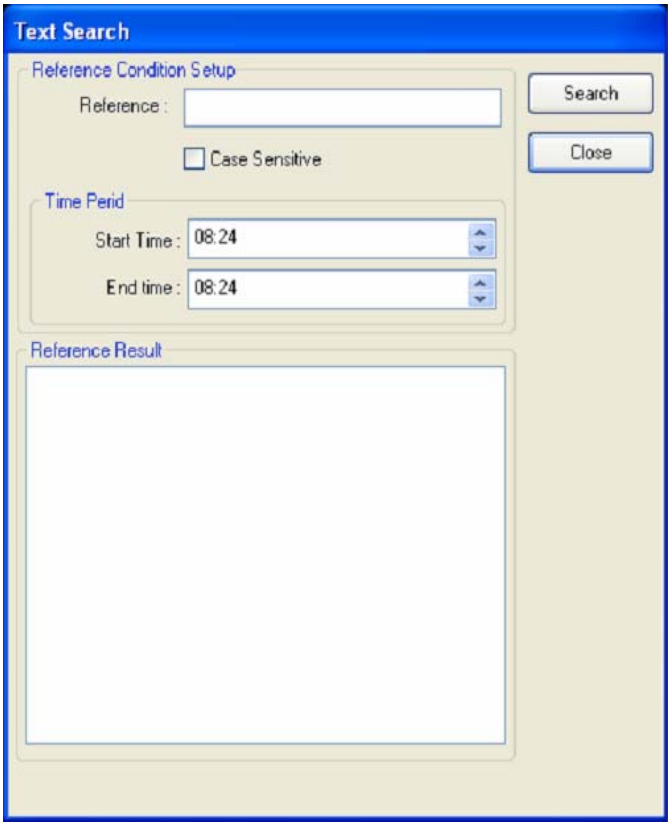



**[Text Search ]**

It is to search POS text data with image according to selected time period and item.

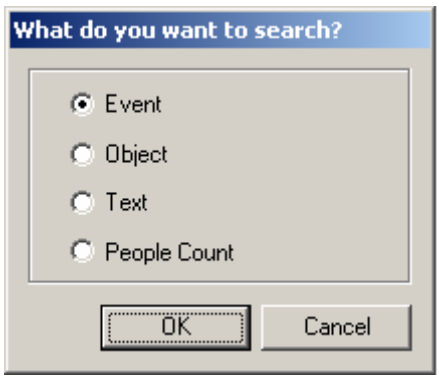


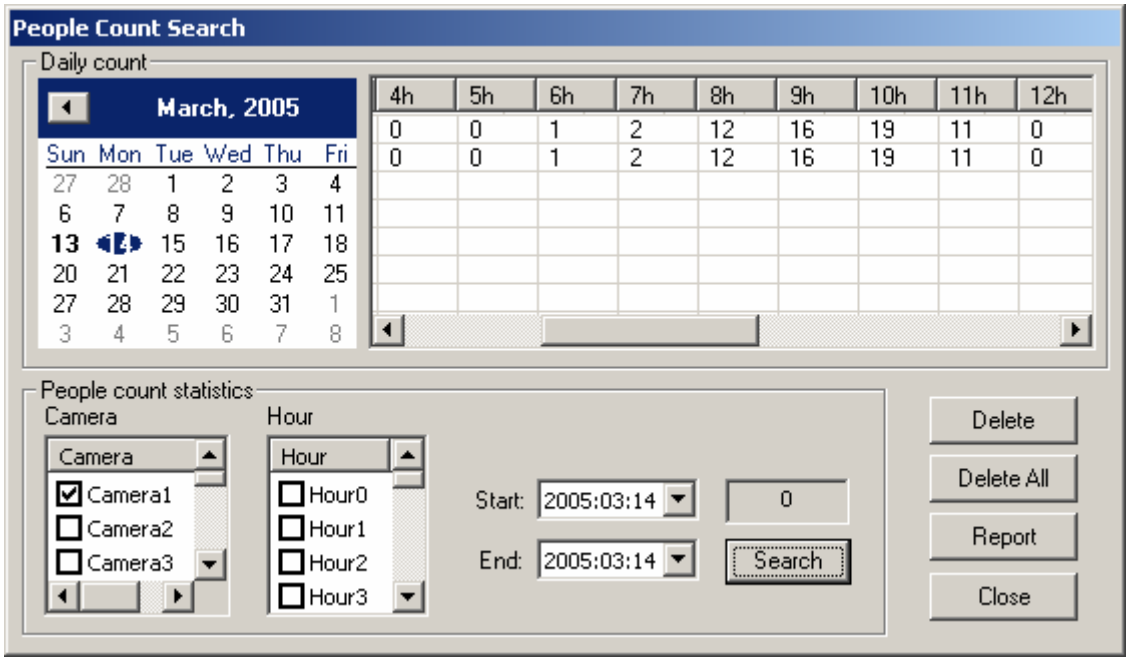

Put in an item (Reference), select time period and click on "Search", and a list with transactions will be displayed.

## [People Count Search]

It is to search people count statistics according to selected time period & camera.




Select date, camera & time, and statistics will be shown as below.
Statistics can also be saved as text file.

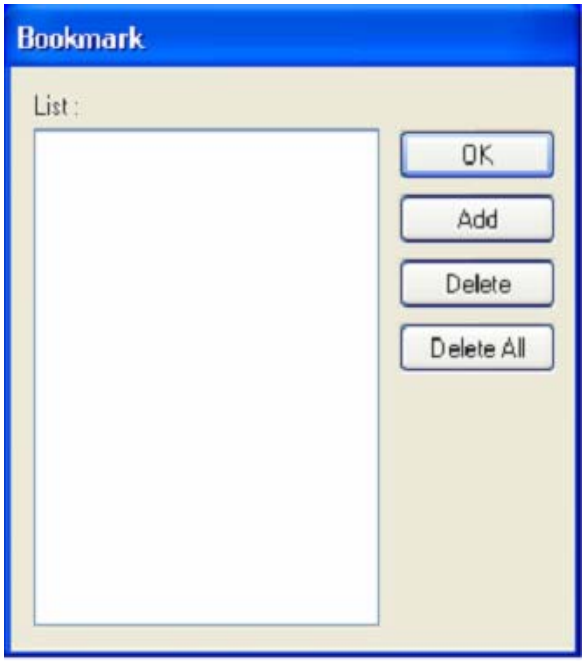


## 5.2.3 Monitoring & Searching

It is a feature that enables user to view live video while searching recorded data.

Right click the mouse and select "Monitoring On" to view live video. Right click the mouse again and select "Monitoring Off" to go back to "Search Mode".

### 5.2.4 Bookmark & Go To

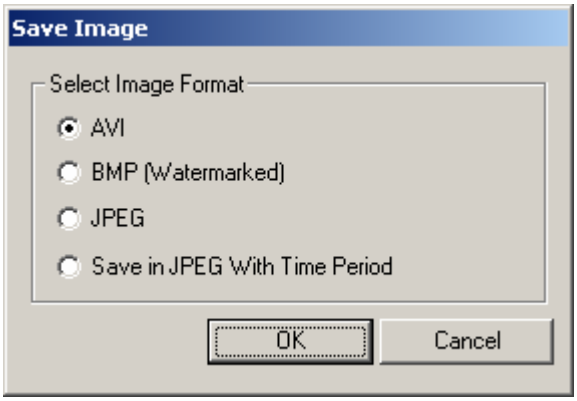



Bookmark (Favorites): Added data from " Object Search" are stored here.

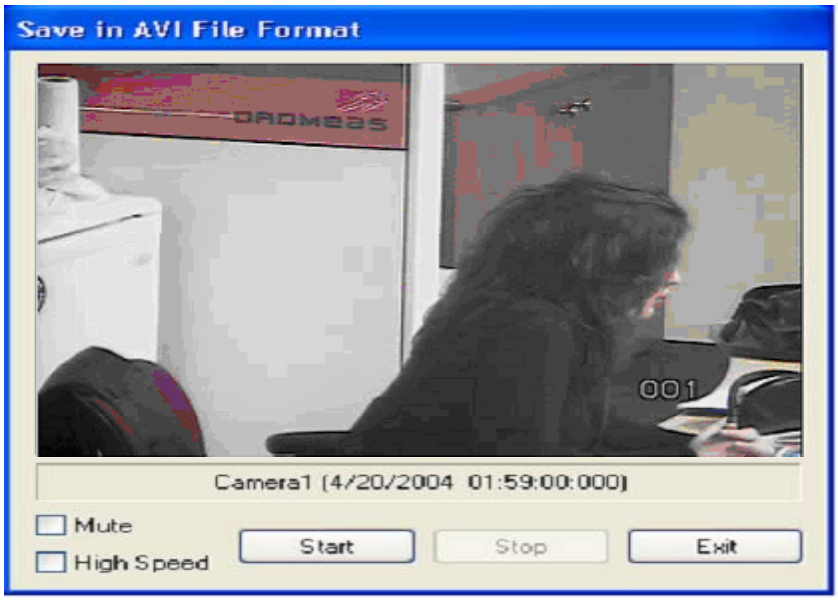
Go To: Select desired time to search and click "OK".

### 5.2.5 Save

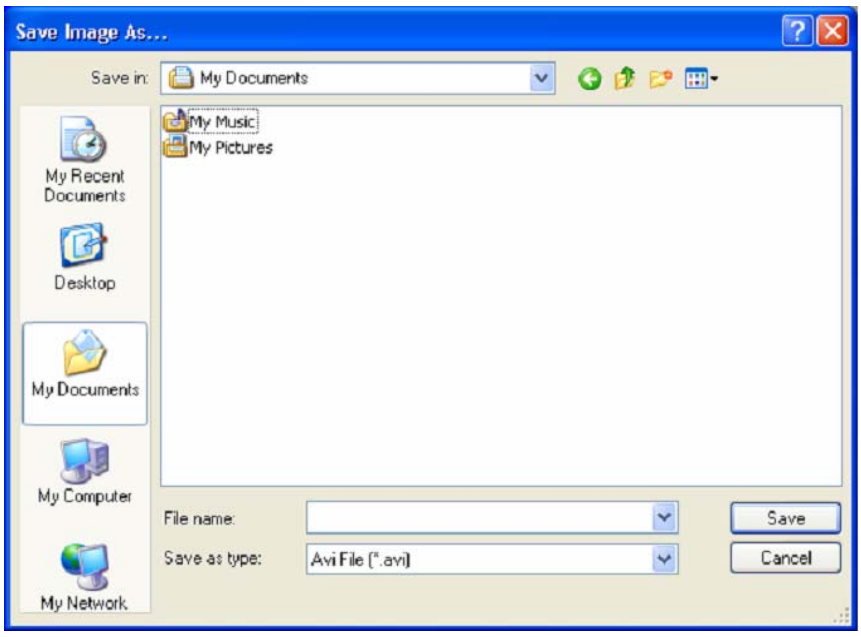
AVI: For saving motion pictures and audio
BMP: For saving images. Watermarked images can be saved.
JPEG: For saving regular still images. Quality is not as good as BMP but less HDD is used.
Save in JPEG with Time Period: For scheduled save in JPEG



**[Save in AVI Format]**

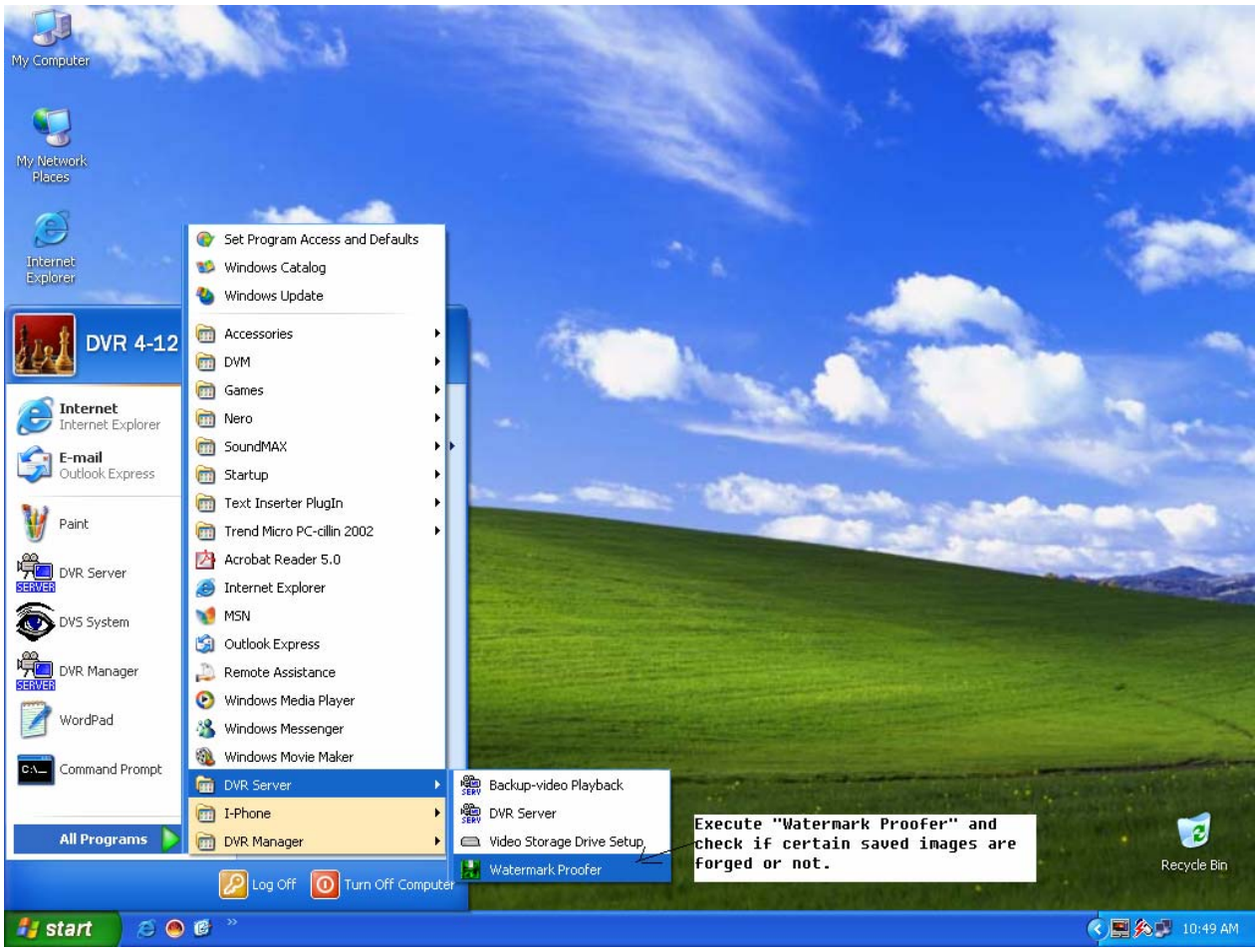


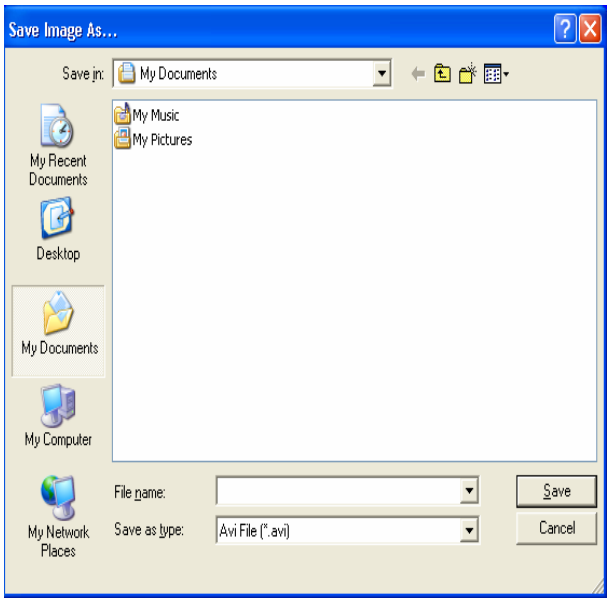

Click "Start" to start saving and "Stop" to stop saving.
Mute: Saving video only (no audio)
High Speed: Saving in high speed

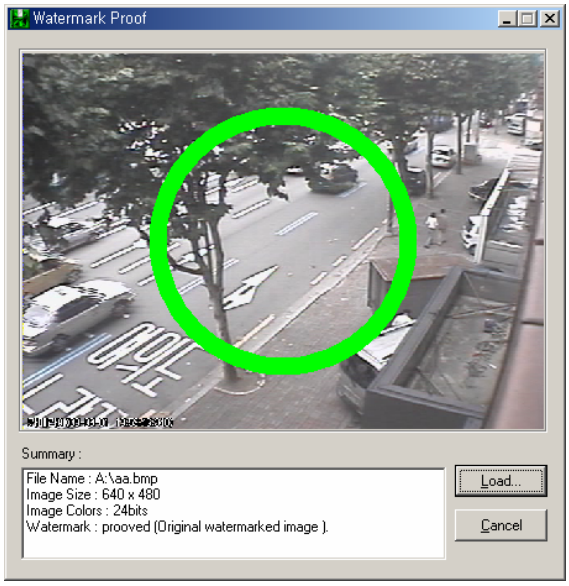


**[Save in BMP Format]** ⇨ Click "Start" and select "BMP" as you save images. Saved images can be checked using "Watermark Proofer".

**Watermark Proofer】**



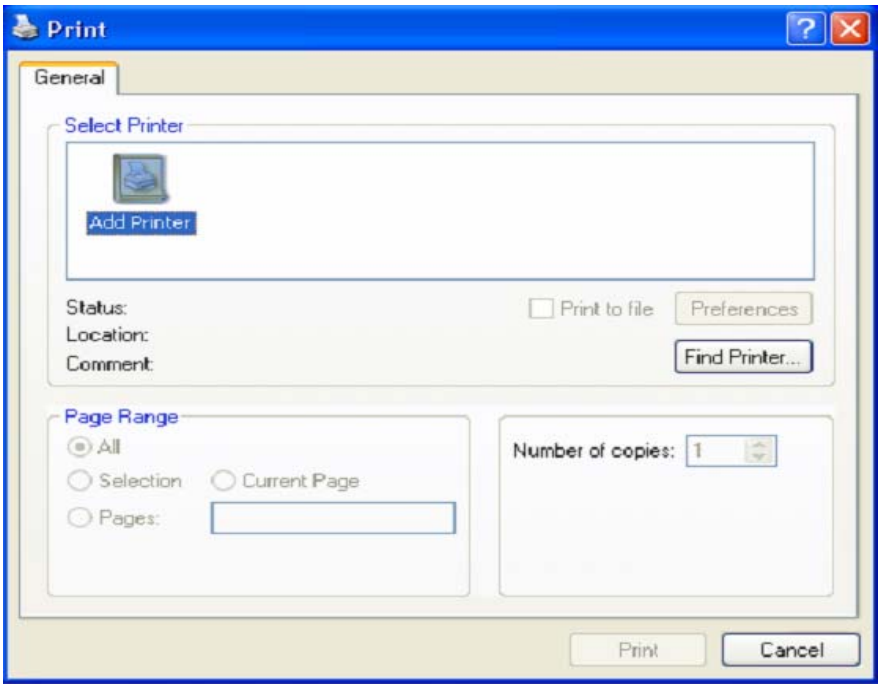




**[Save in JPEG Format]** ⇨ **Click "Start" and select "JPEG" as you save images.**

**[Save in JPEG with Time Period]** ⇨ **Select time period and select channels to be saved in JPEG.**

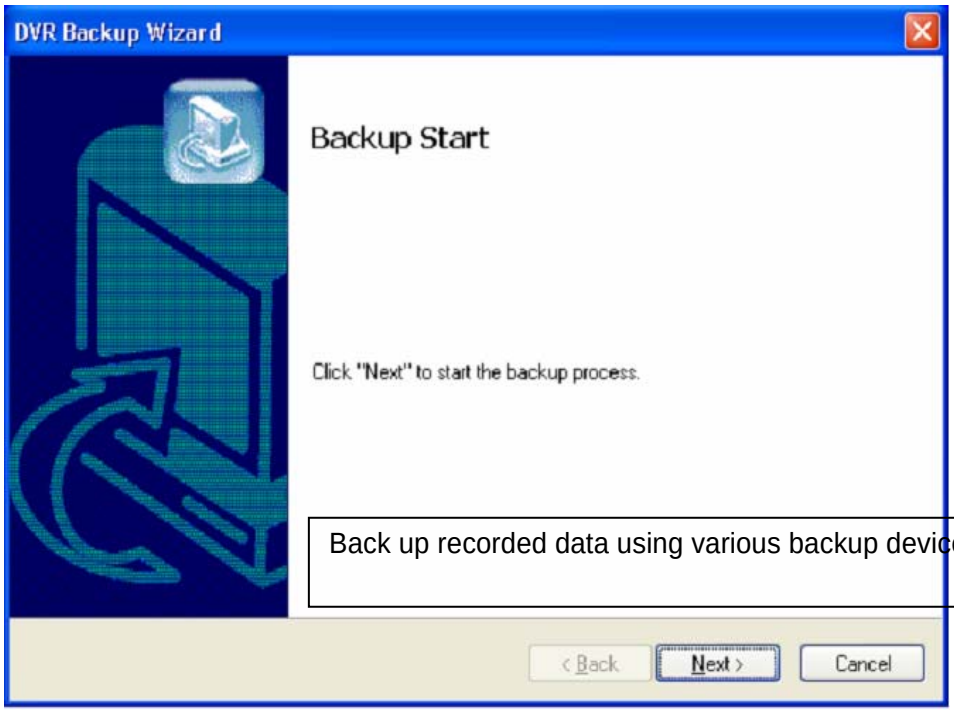
## 5.2.6 Print




Click the "Print" button and follow the same printing procedure as you would normally print out documents.

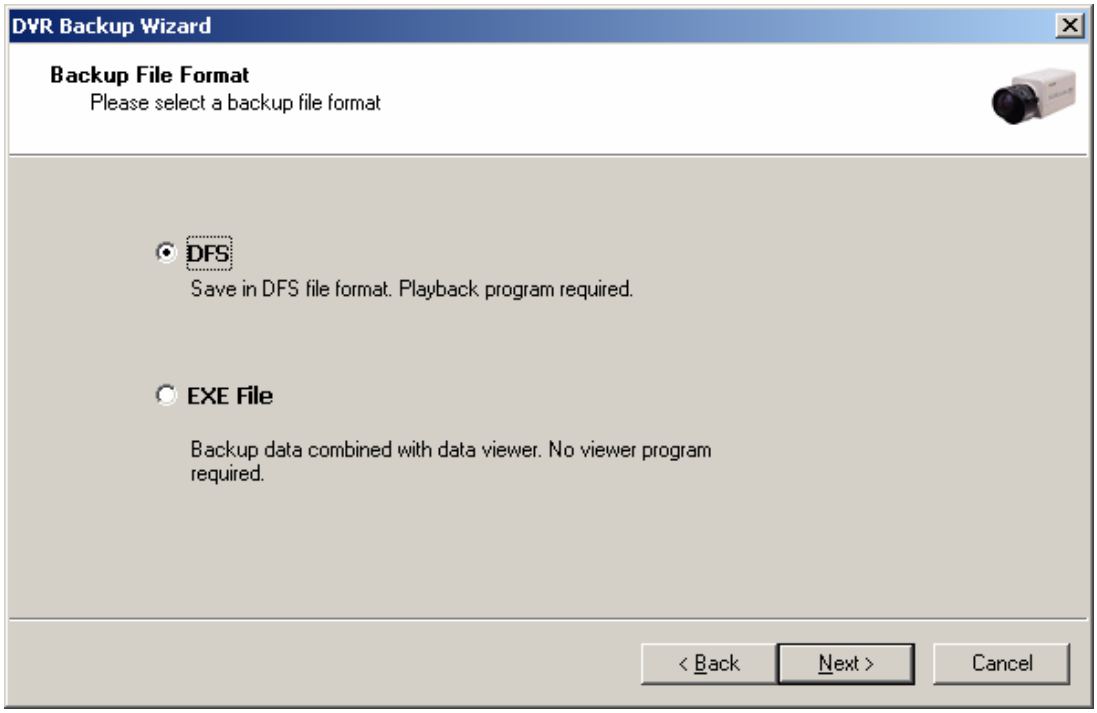
## 5.2.7 Backup

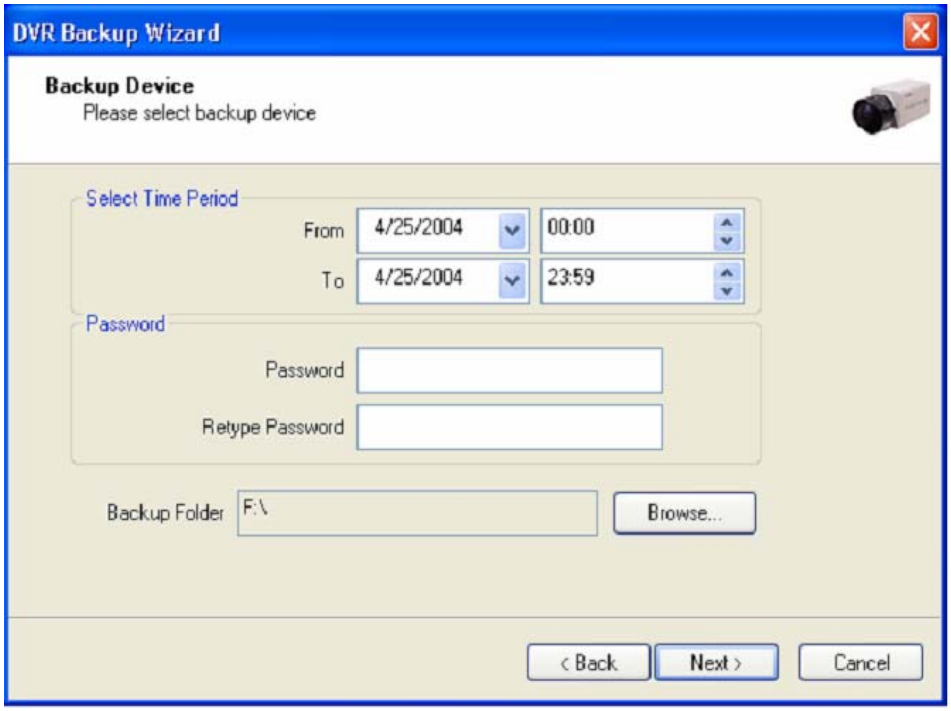
The recorded data can be copied from the hard disk to external storage devices, such as CD-R, DVD.



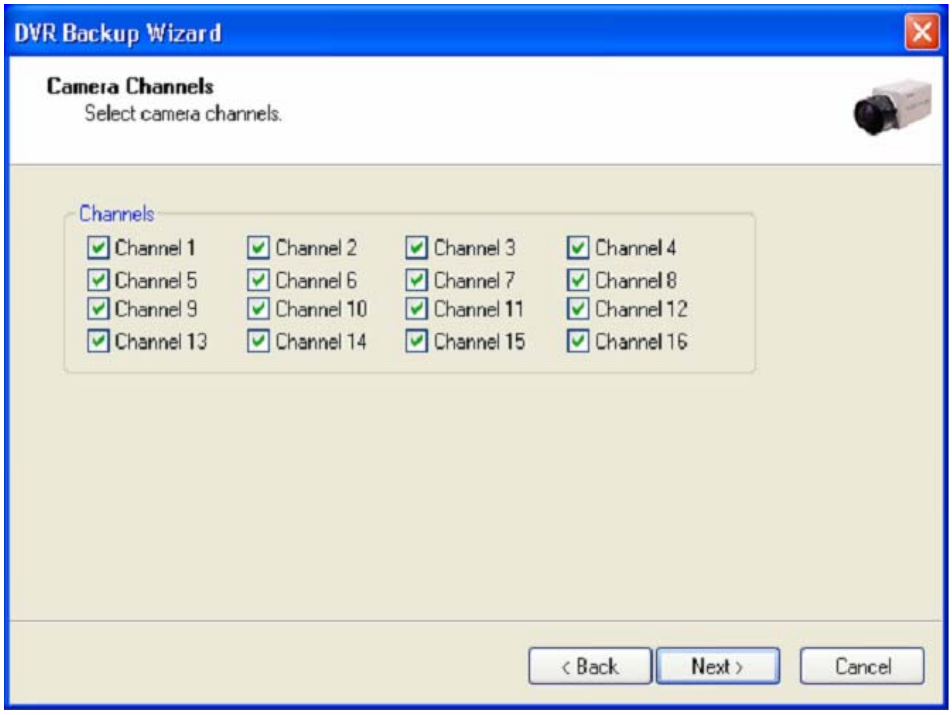

Back up recorded data using various backup devices.

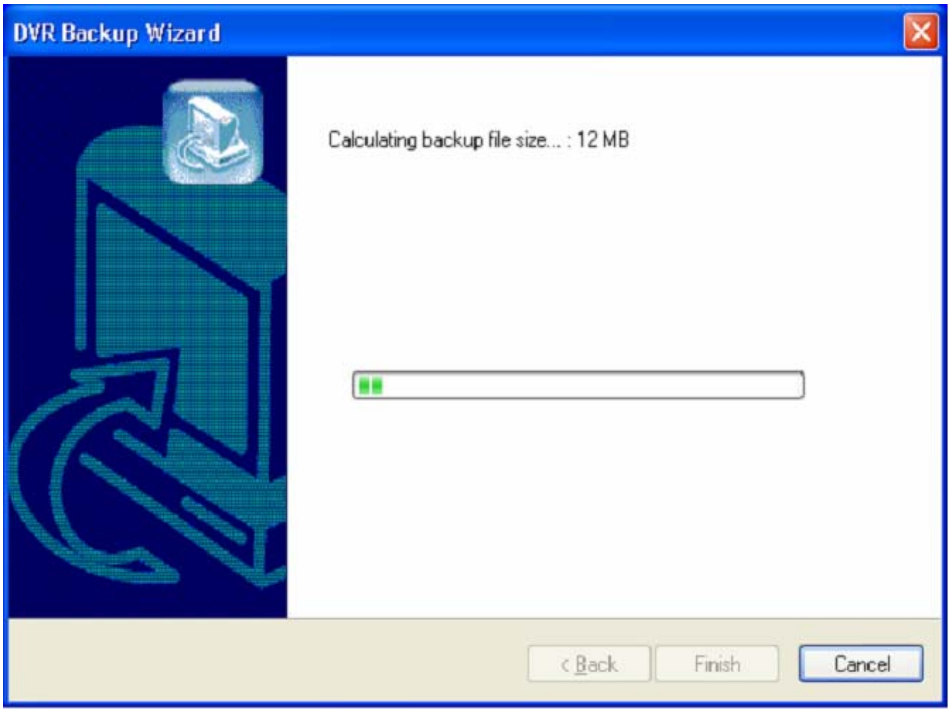
### 5.2.7.1 DFS Back up

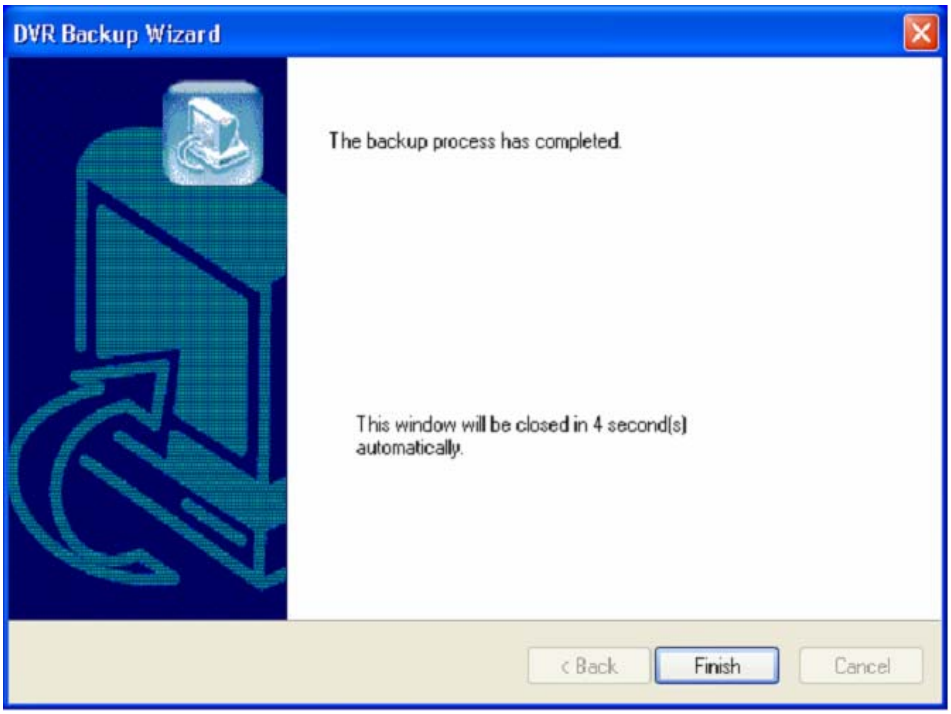

DVR Backup Wizard
Backup File Format
Please select a backup file format
DFS
Save in DFS file format. Playback program required.
EXE File
Backup data combined with data viewer. No viewer program required.
< Back
Next >
Cancel



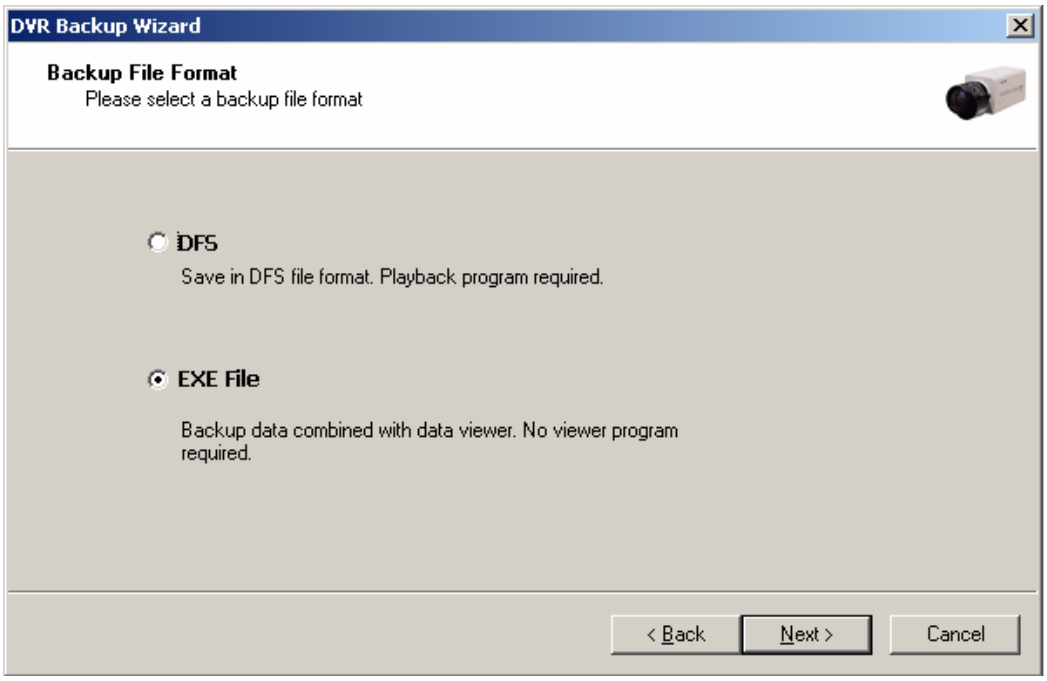

Select Time Period : Specify time period for backup. The minimum period for backup is 1 minute.
If password is set, viewing backup data will be possible only when it is typed in.
Backup Folder : Click the "Browse" button, select a drive to back up and enter a desired folder name.



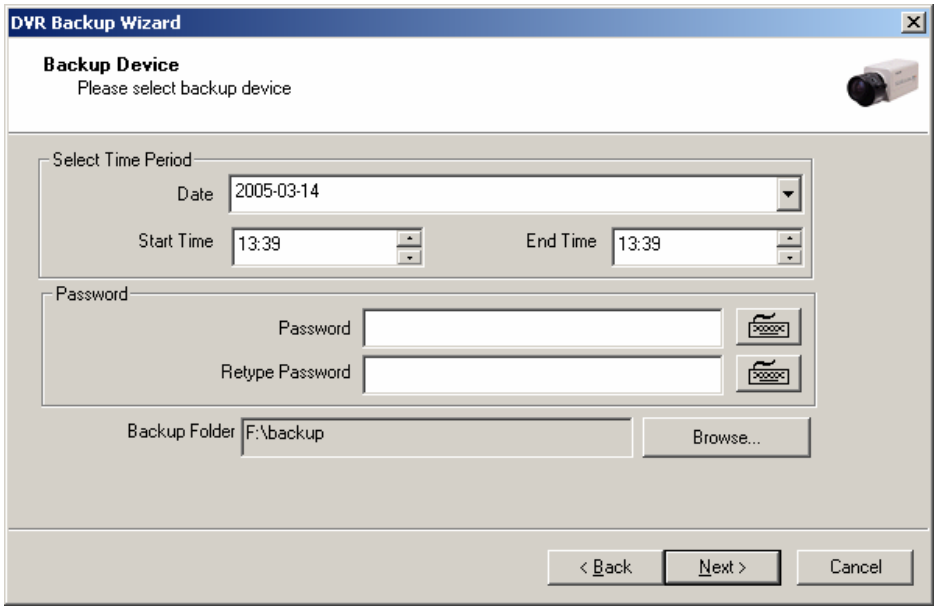

DVR Backup Wizard
Calculating backup file size... : 12 MB
< Back
Finish
Cancel


DVR Backup Wizard
The backup process has completed.
This window will be closed in 4 second(s) automatically.
< Back
Finish
Cancel

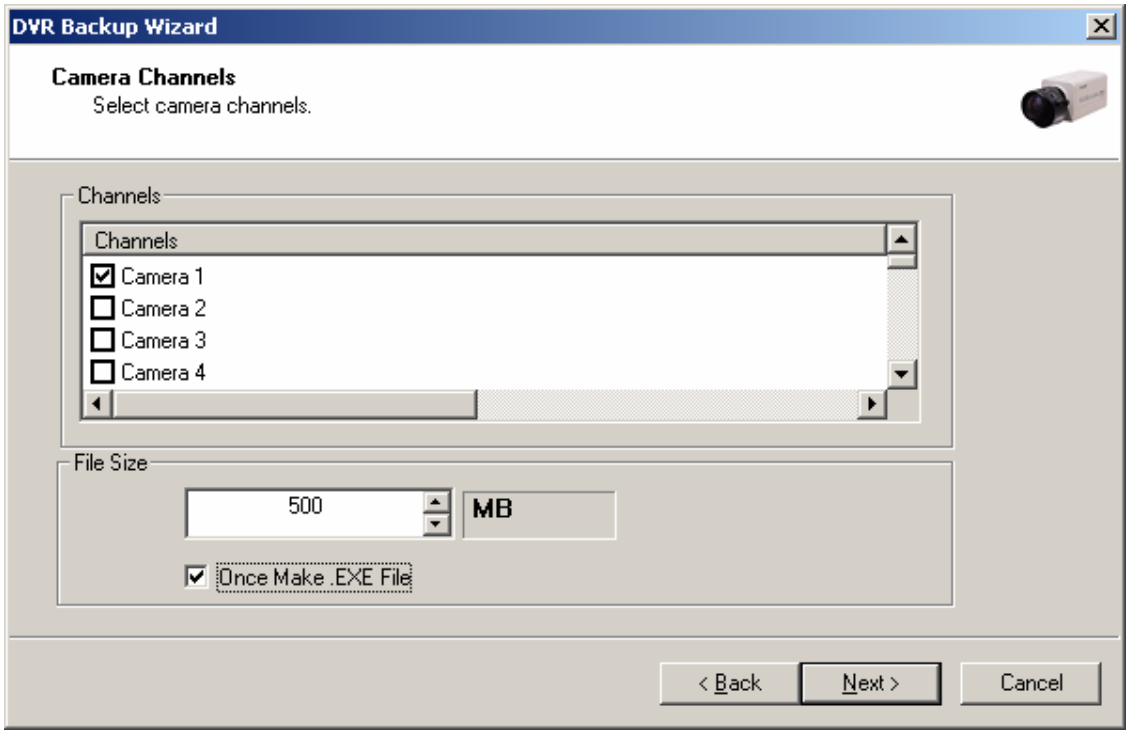
## 5.2.7.2 EXE Back up

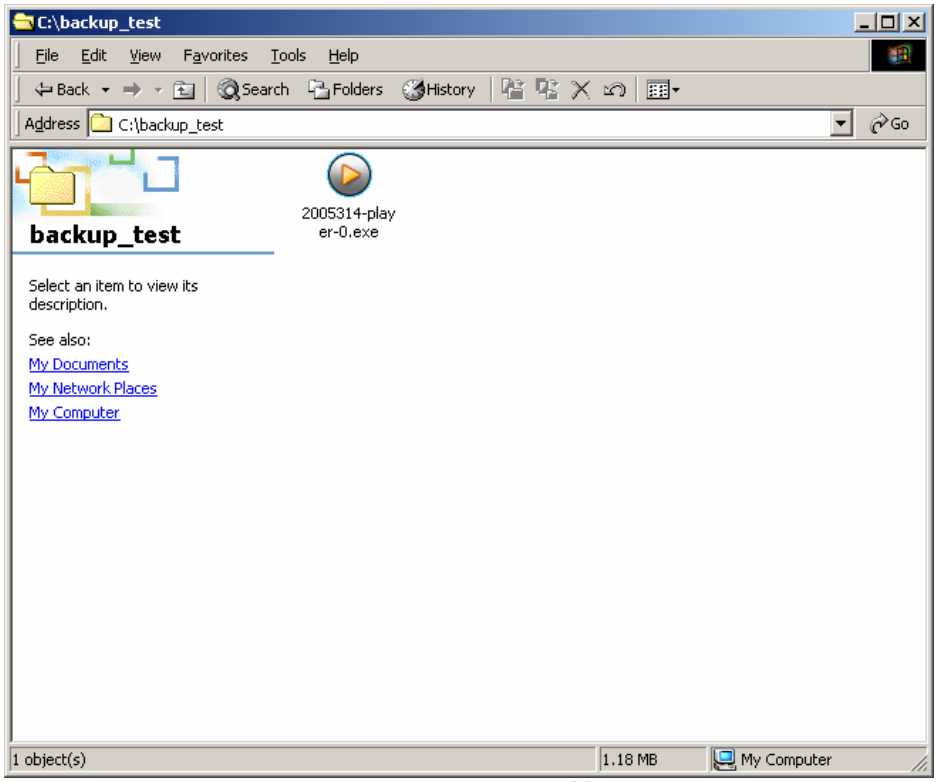

DVR Backup Wizard
Backup File Format
Please select a backup file format
DFS
Save in DFS file format. Playback program required.
EXE File
Backup data combined with data viewer. No viewer program required.
< Back
Next >
Cancel

Any recorded data can be saved as ".exe" file. No viewer program is required to see saved data.
Note : 1. file size limited up to 1 GB.
2. 1 channel backup only.

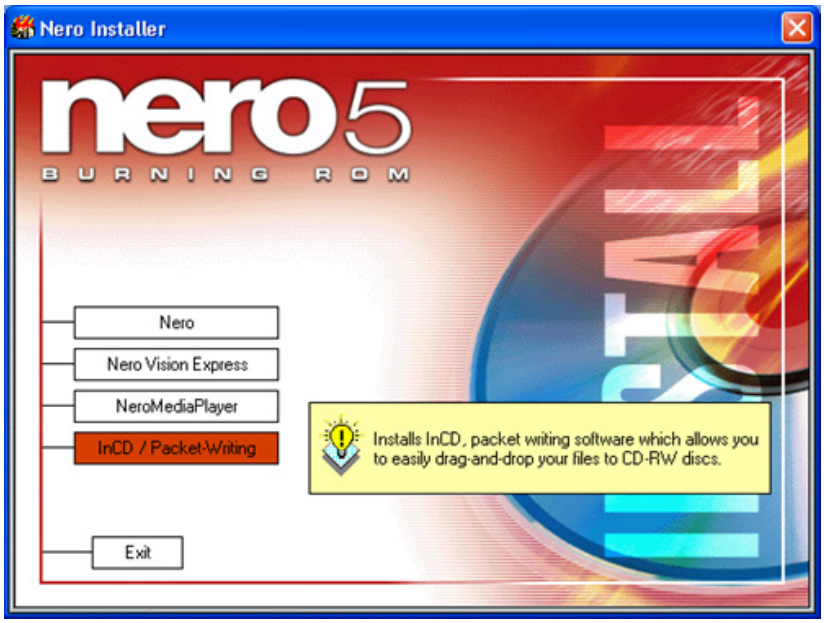


1. Select "EXE File".
2. **Specify time period, password, drive, etc.**
3. **Select ONE channel to back up.**
4. **Specify file size up to ONE GB. If it is larger than 1GB, multiple exe files will be created.**
5. **Click the "Once Make EXE File" box to create only one file with the file size specified.**
6. **Double-click the exe file created to see data.**

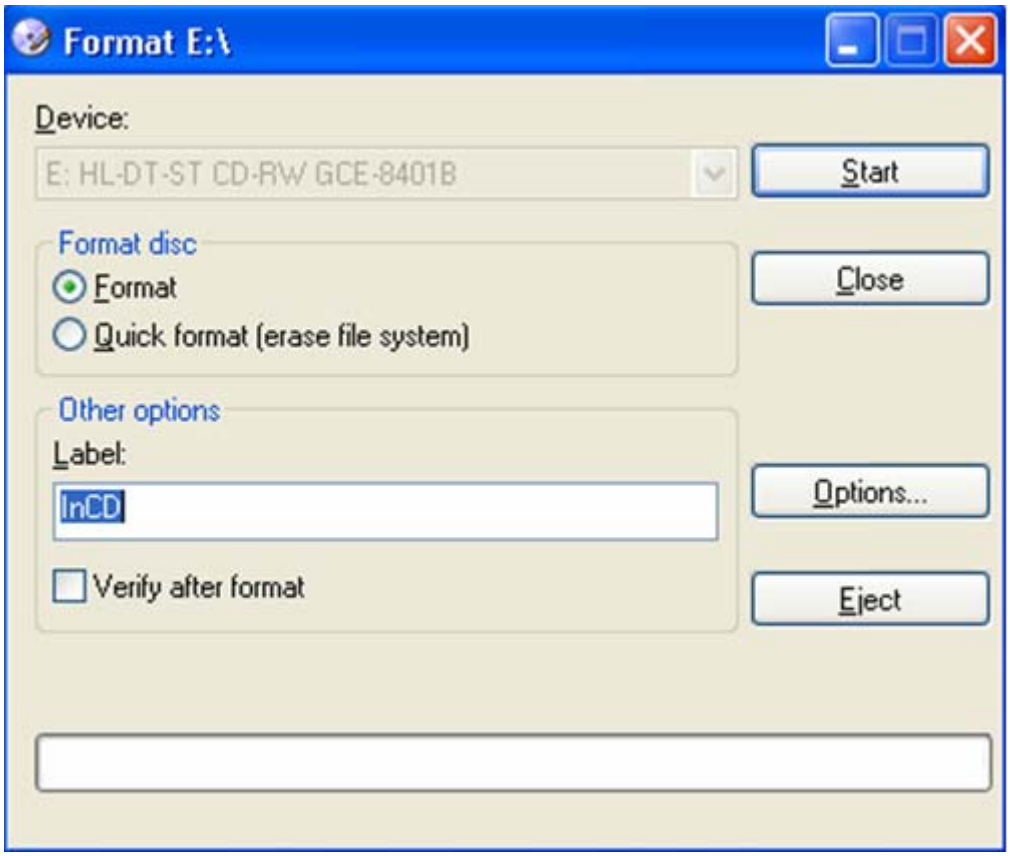


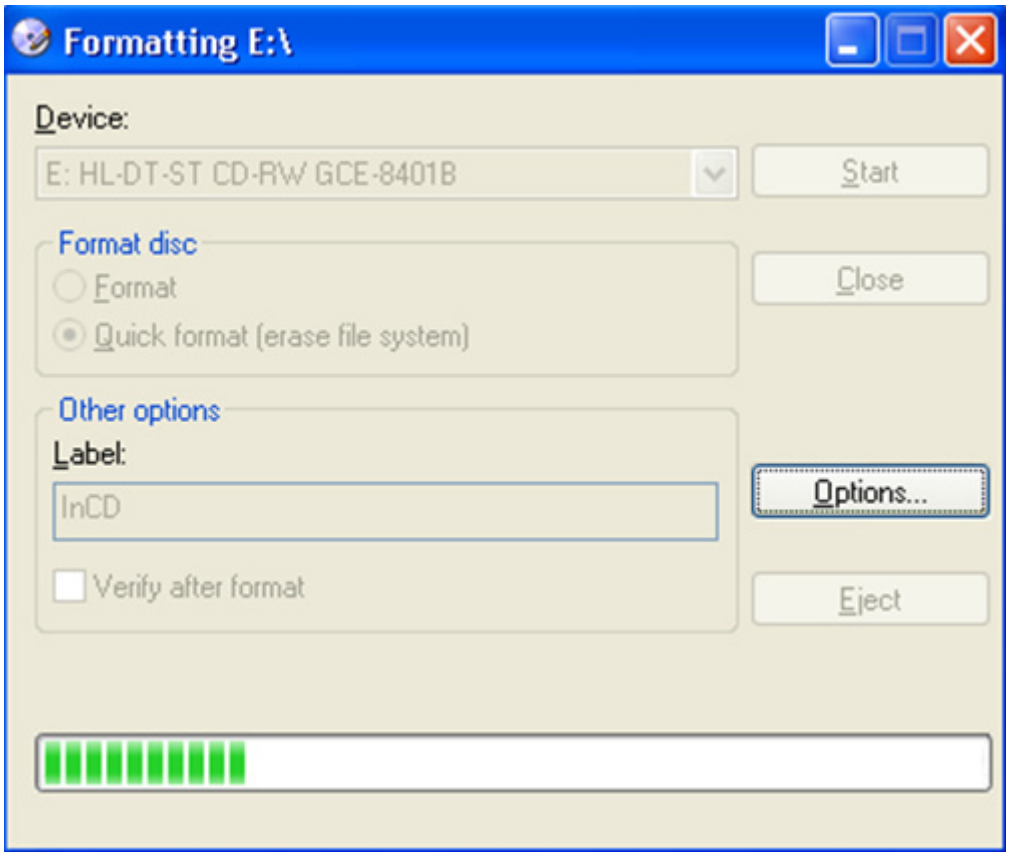



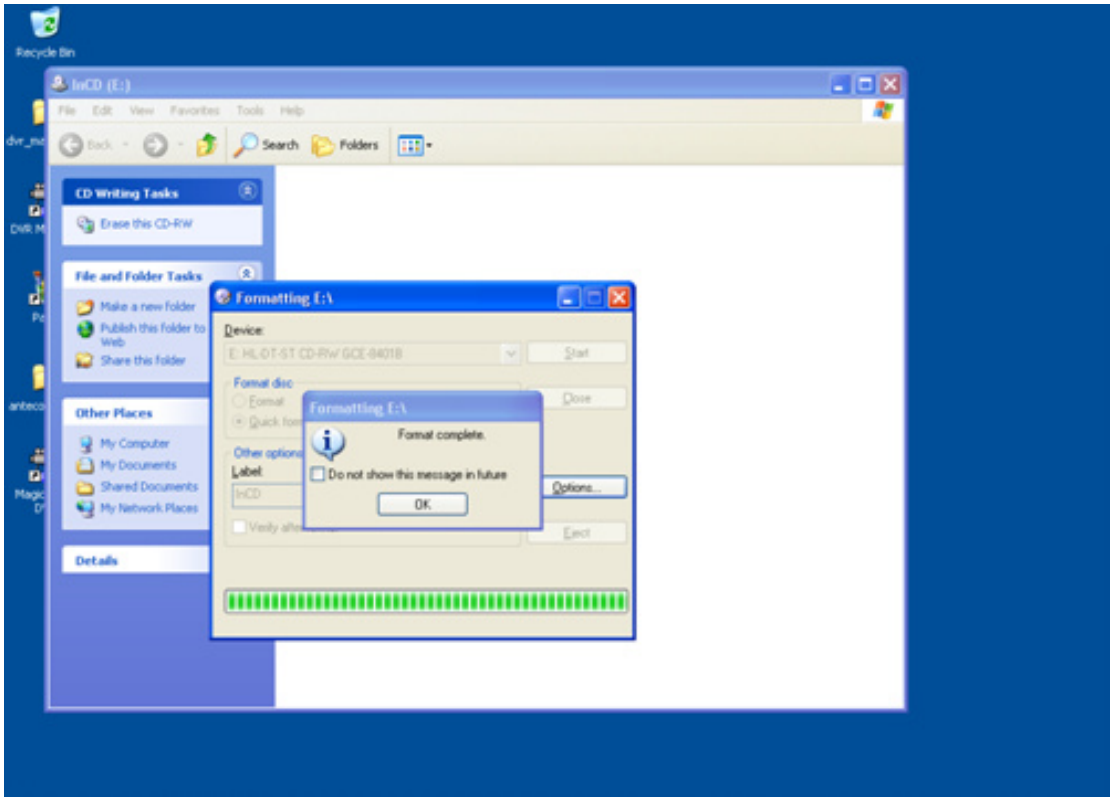
## 5.2.7.3 Run CD Burner ( For Non Windows XP Users)



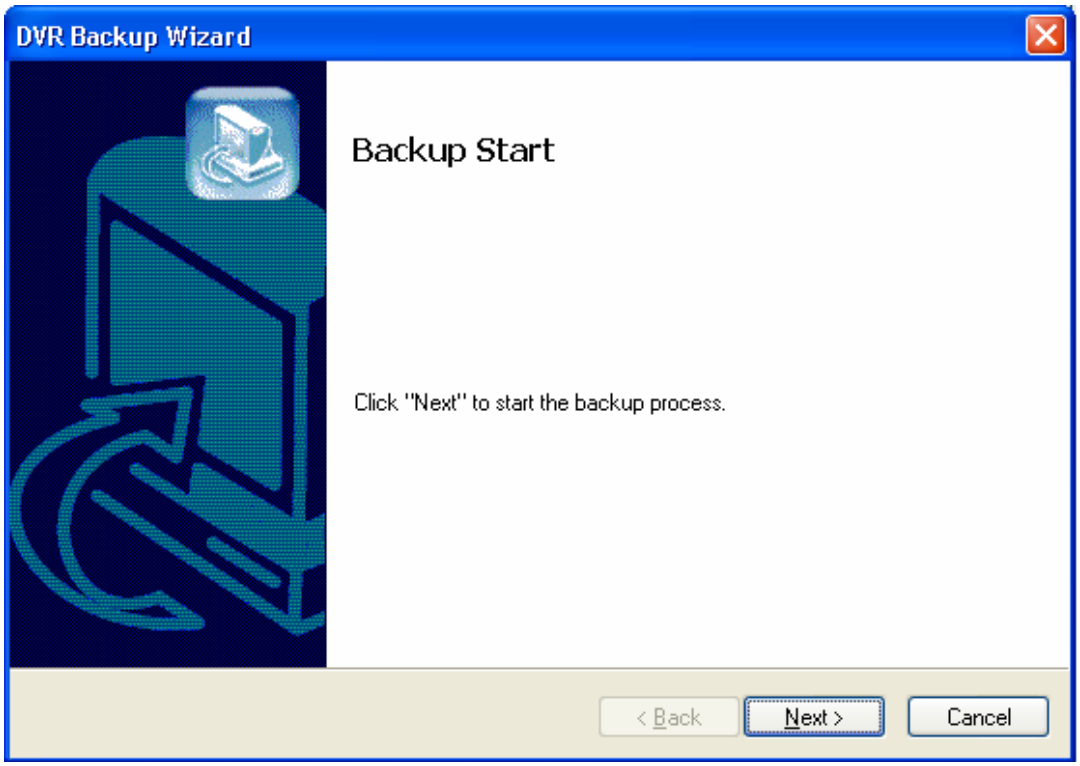

1. Install bundle CD and install INCD.
3.After installing INCD, run "**InCDL.exe"** which is the INCD Launch Program.
4. Insert a blank RW CD and then start formatting it (If it is a brand-new one, click "Format" instead of "Quick Format").

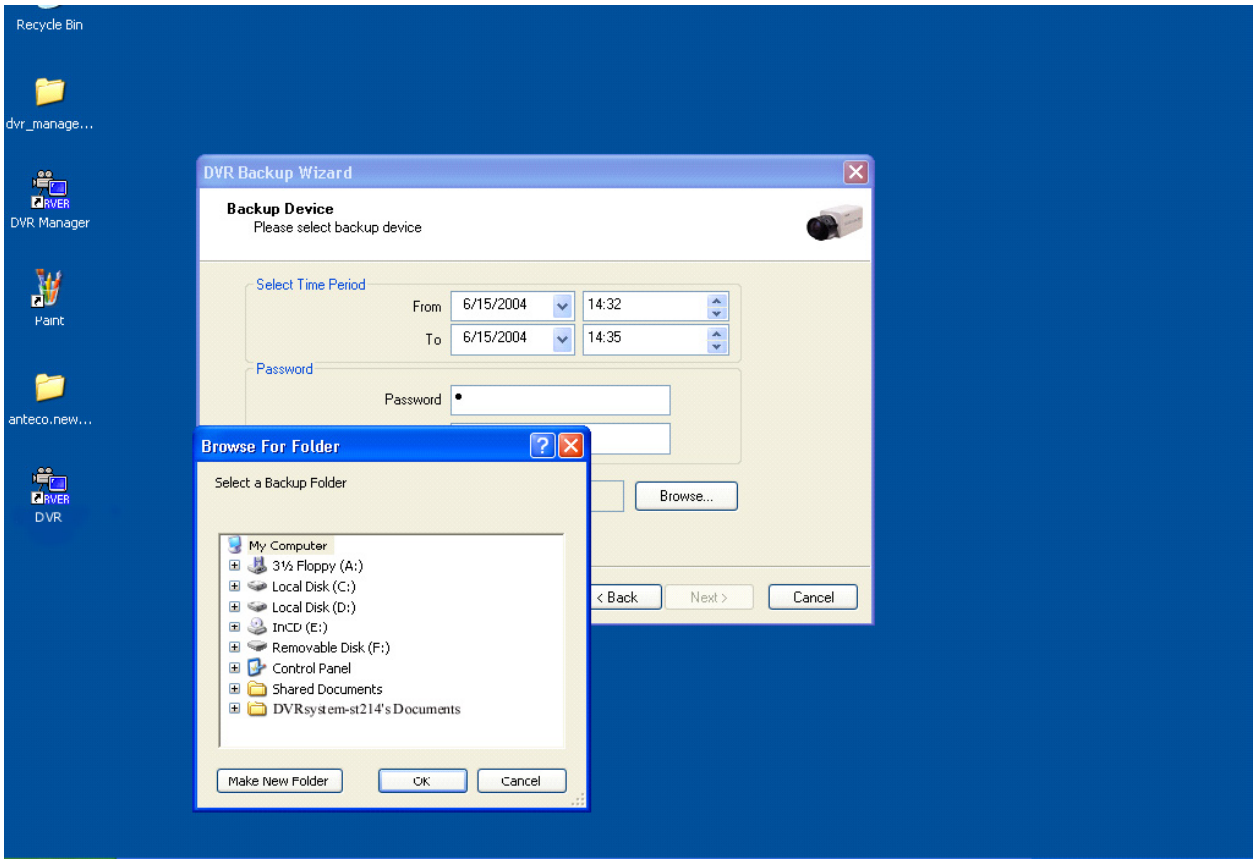

Format E:\
Device:
E: HL-DT-ST CD-RW GCE-8401B
Start
Format disc
Format
Quick format (erase file system)
Close
Other options
Label:
InCD
Options...
Verify after format
Eject

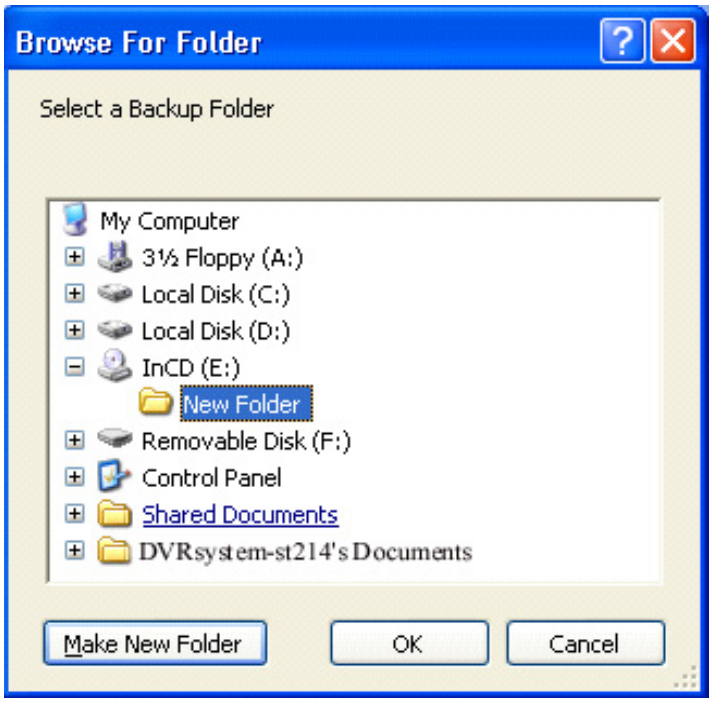

Formatting E:\
Device:
E: HL-DT-ST CD-RW GCE-8401B
Start
Format disc
Format
Quick format (erase file system)
Close
Other options
Label:
InCD
Options...
Verify after format
Eject



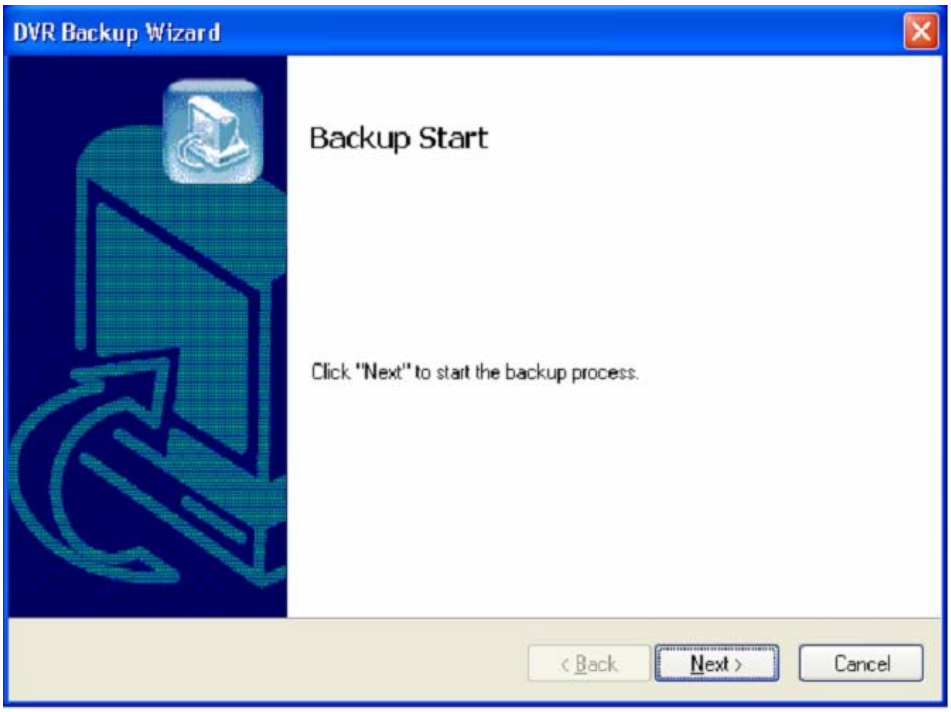

5. Leave the DVR Program and insert the blank RW CD which has been formatted.
6. Select "Backup" and click "Next" to start.
7. Select time period & password and click "Browse" to create a folder.

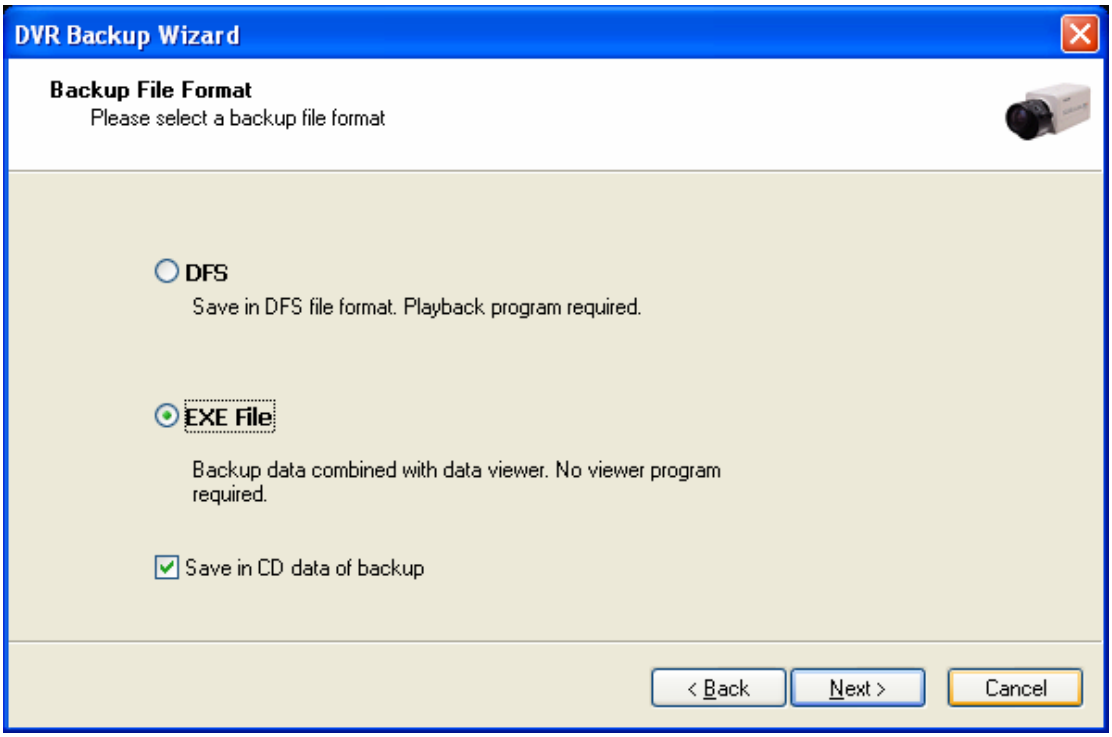



Recycle Bin
dvr_manage...
DVR Manager
Paint
anteco.new...
DVR
DVR Backup Wizard
Backup Device
Please select backup device
Select Time Period
From 6/15/2004 14:32
To 6/15/2004 14:35
Password
Password
Browse...
< Back
Next >
Cancel
Browse For Folder
Select a Backup Folder
My Computer
3½ Floppy (A:)
Local Disk (C:)
Local Disk (D:)
InCD (E:)
Removable Disk (F:)
Control Panel
Shared Documents
DVRsystem-st214's Documents
Make New Folder
OK
Cancel


Browse For Folder
Select a Backup Folder
My Computer
3½ Floppy (A:)
Local Disk (C:)
Local Disk (D:)
InCD (E:)
New Folder
Removable Disk (F:)
Control Panel
Shared Documents
DVRsystem-st214's Documents
Make New Folder
OK
Cancel

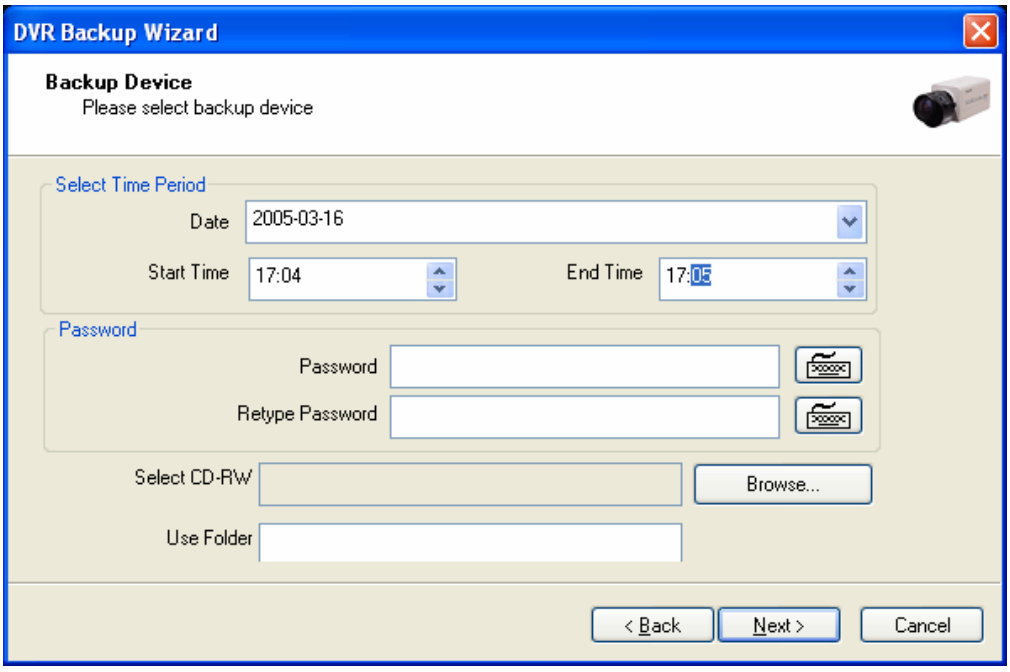
## 5.2.7.4 Run CD Burner ( For WindowsXP Users Only)



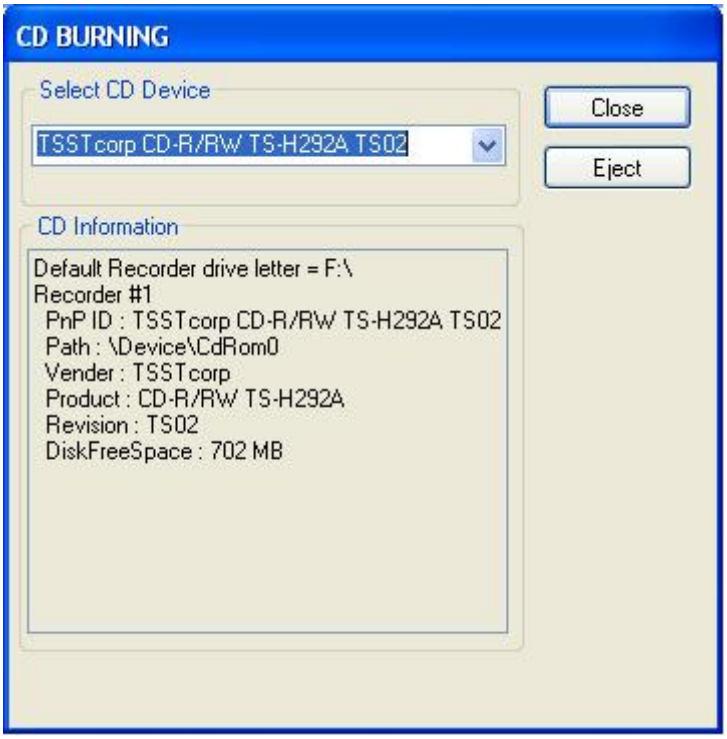


DVR Backup Wizard
Backup File Format
Please select a backup file format
DFS
Save in DFS file format. Playback program required.
EXE File
Backup data combined with data viewer. No viewer program required.
Save in CD data of backup
< Back
Next >
Cancel

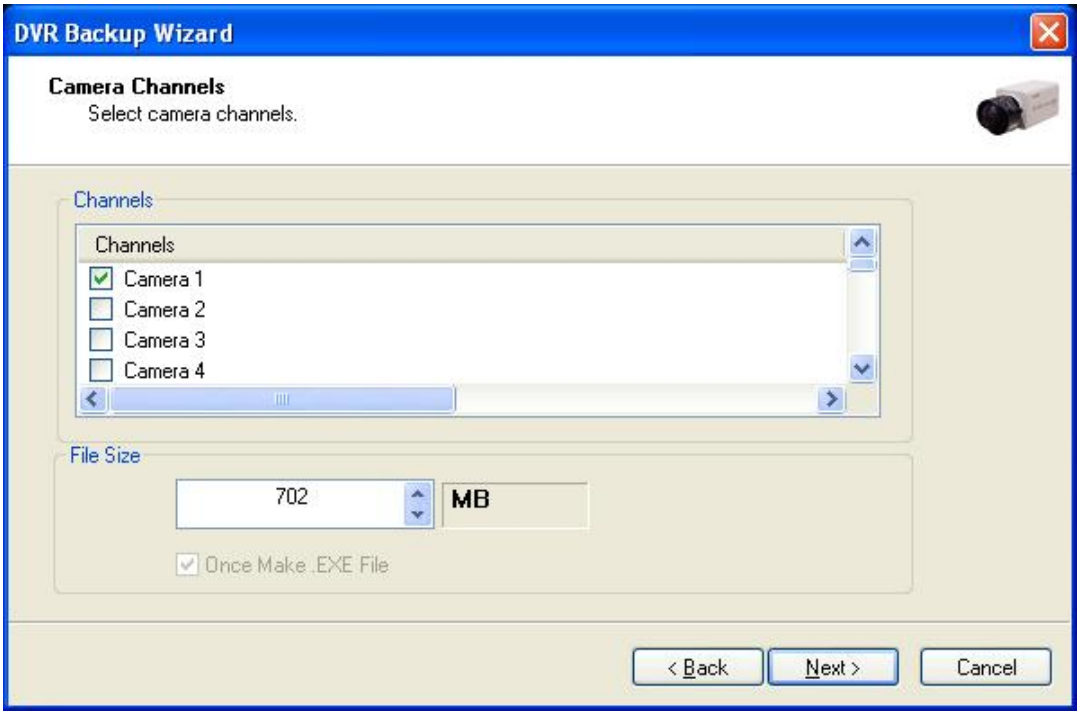
Windows XP users can back up data directly in a CD without exiting the DVR Program.

1. Click the "Save in CD data of backup" box and click "Next".

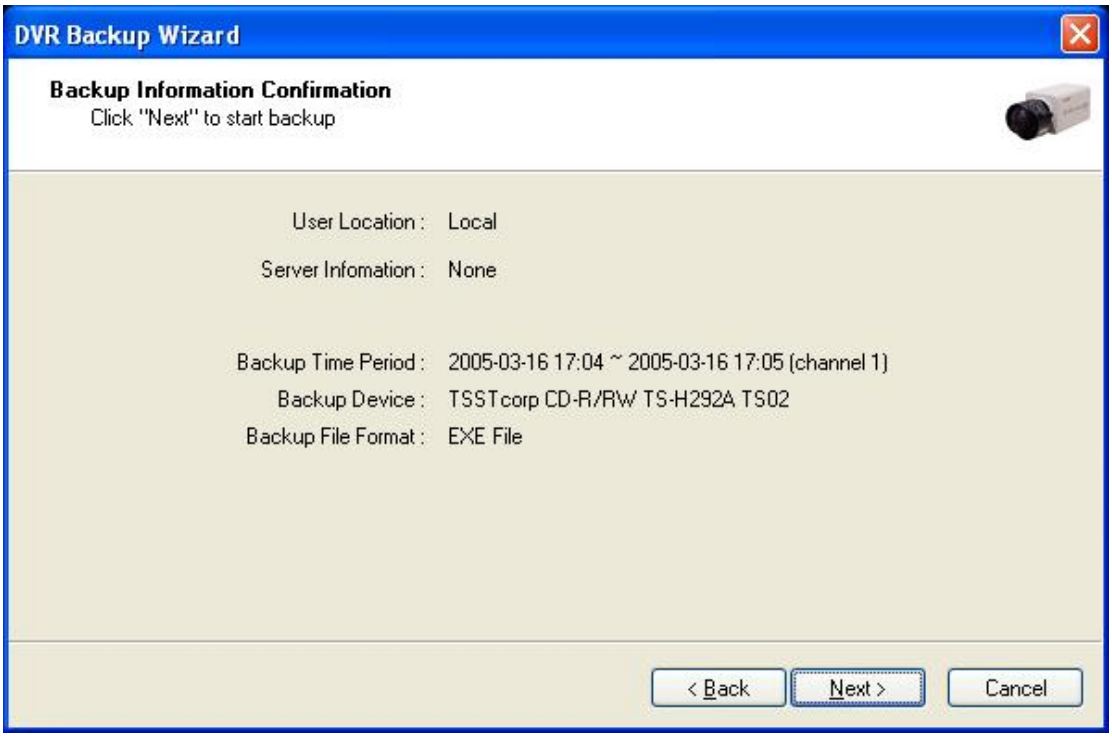



2. Select Time Period : Specify time period and password.
3. Select CD-RW drive.
4. Create folder name if it should be used and click "Next".
5. CD information will be shown as below.

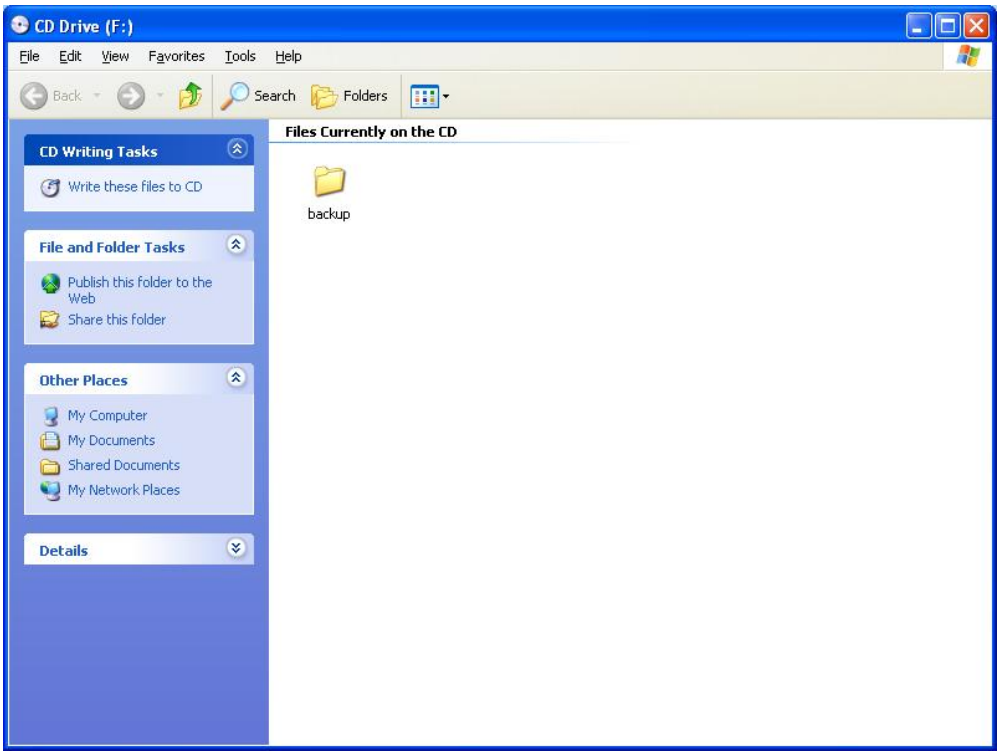


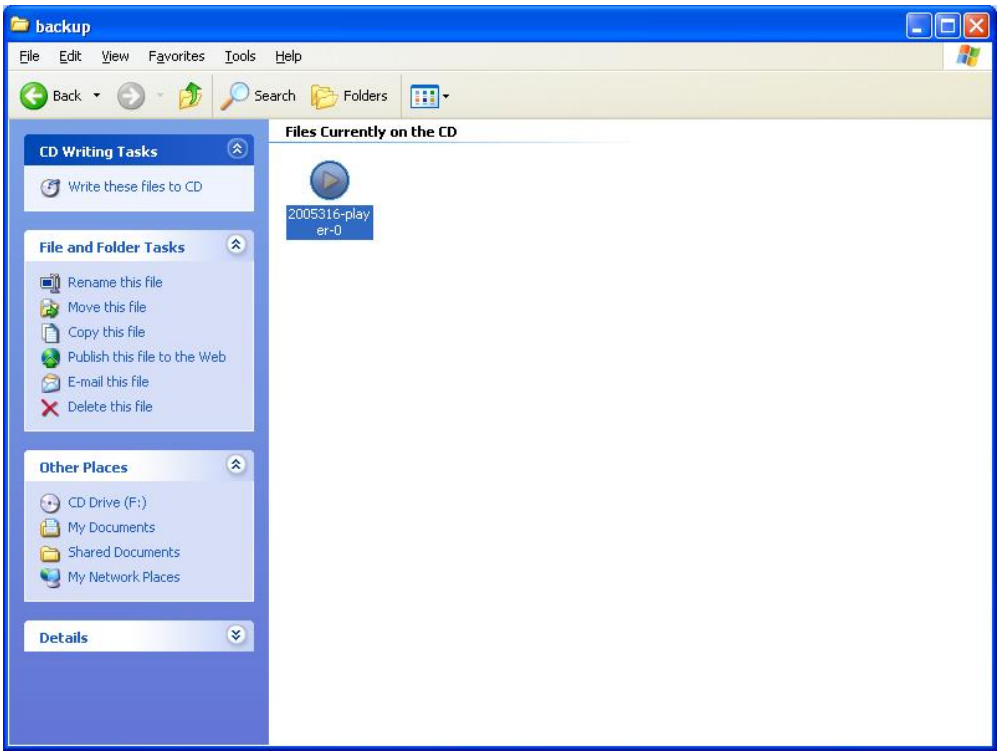



6. **Select 1 channel to back up.**
7. **Identify the maximum file size indicated. An attempt to back up more than the size indicated will result in a failure.**


DVR Backup Wizard
Backup Information Confirmation
Click "Next" to start backup
User Location : Local
Server Infomation : None
Backup Time Period : 2005-03-16 17:04 ~ 2005-03-16 17:05 (channel 1)
Backup Device : TSSTcorp CD-R/RW TS-H292A TS02
Backup File Format : EXE File
< Back
Next >
Cancel

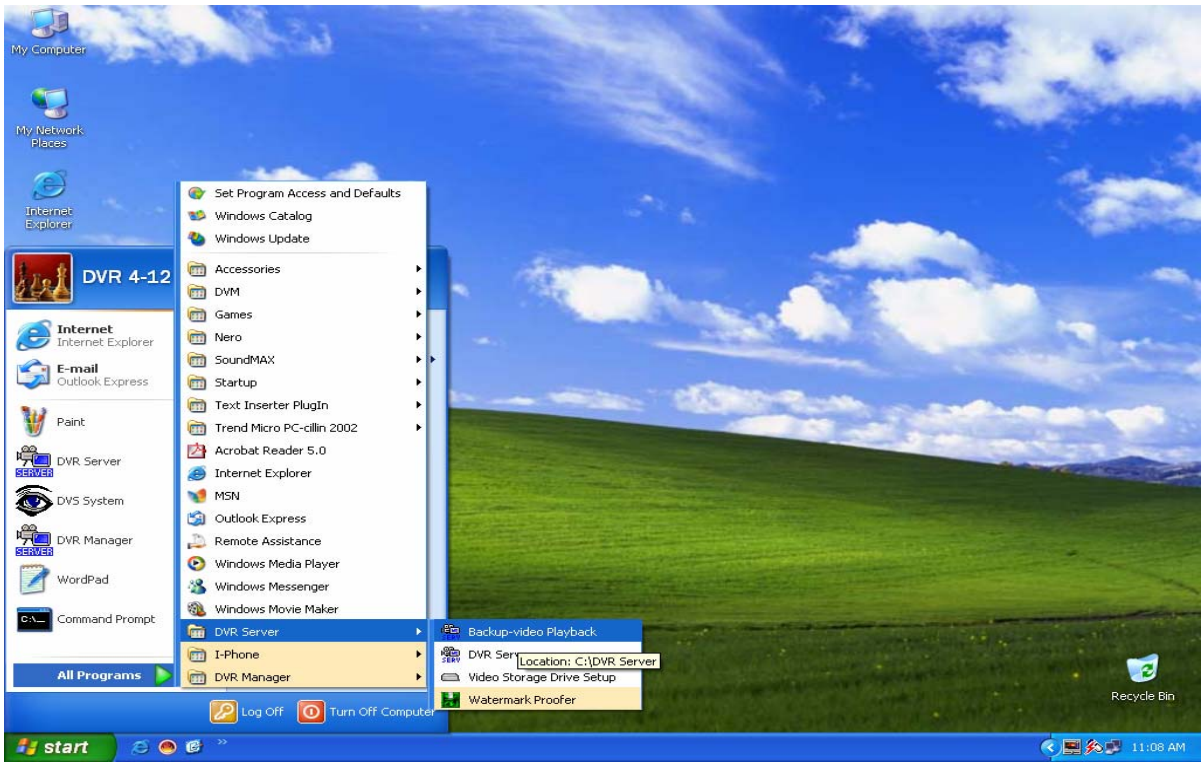
8. **After completing back up, find the files created in the CD.**

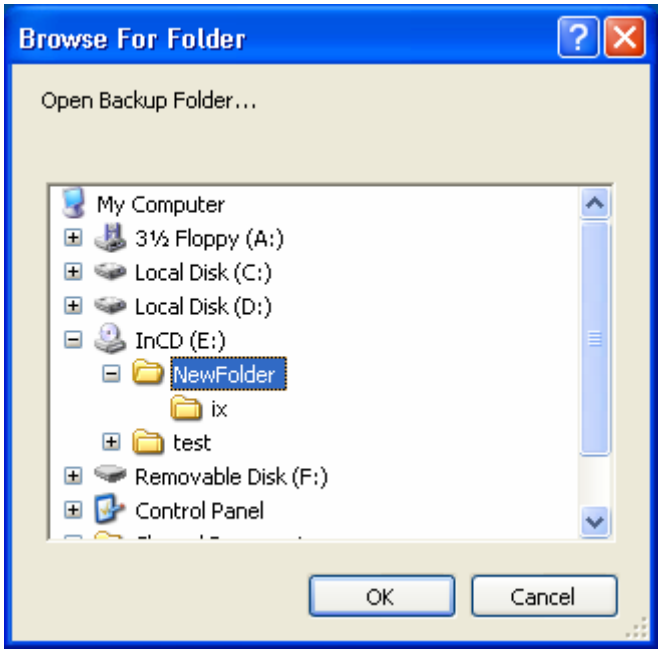


## 5.2.7.5 Playback

1. Click the "Start" button and run the "DVR's Playback Program".
2. Select a folder (subfolder) to see saved data.

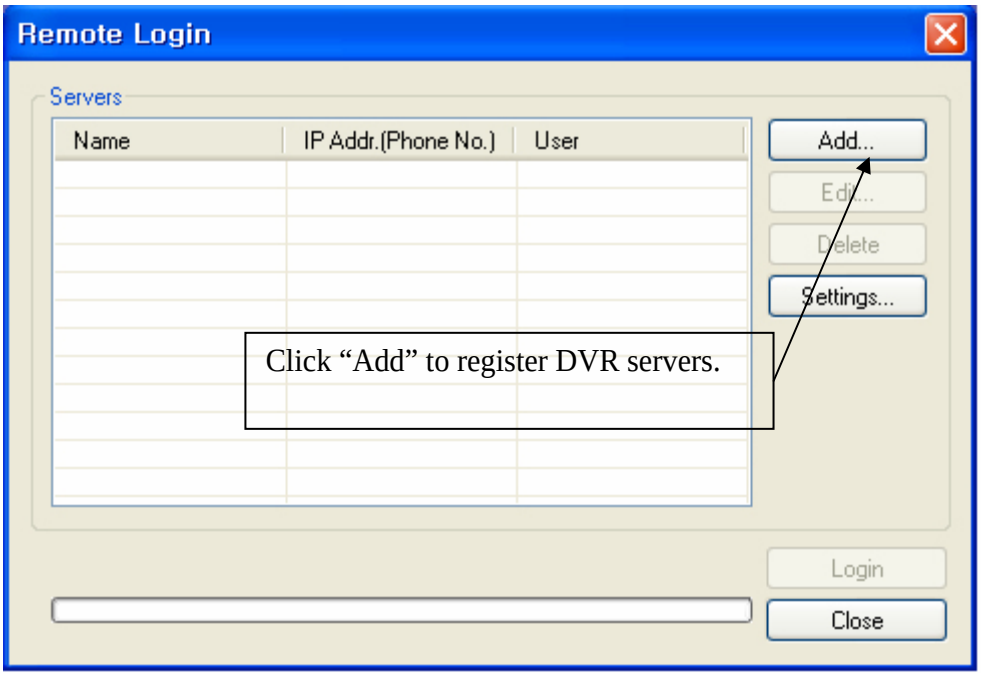


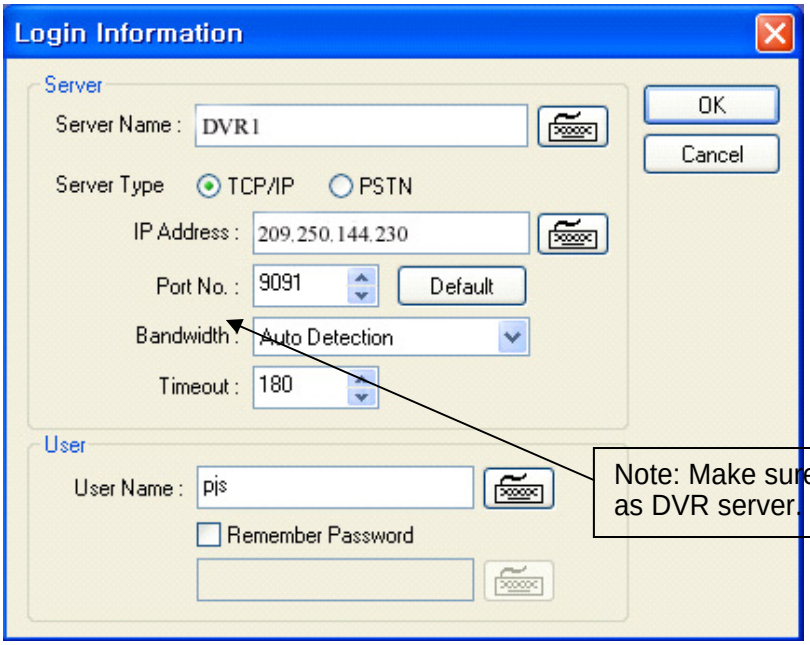



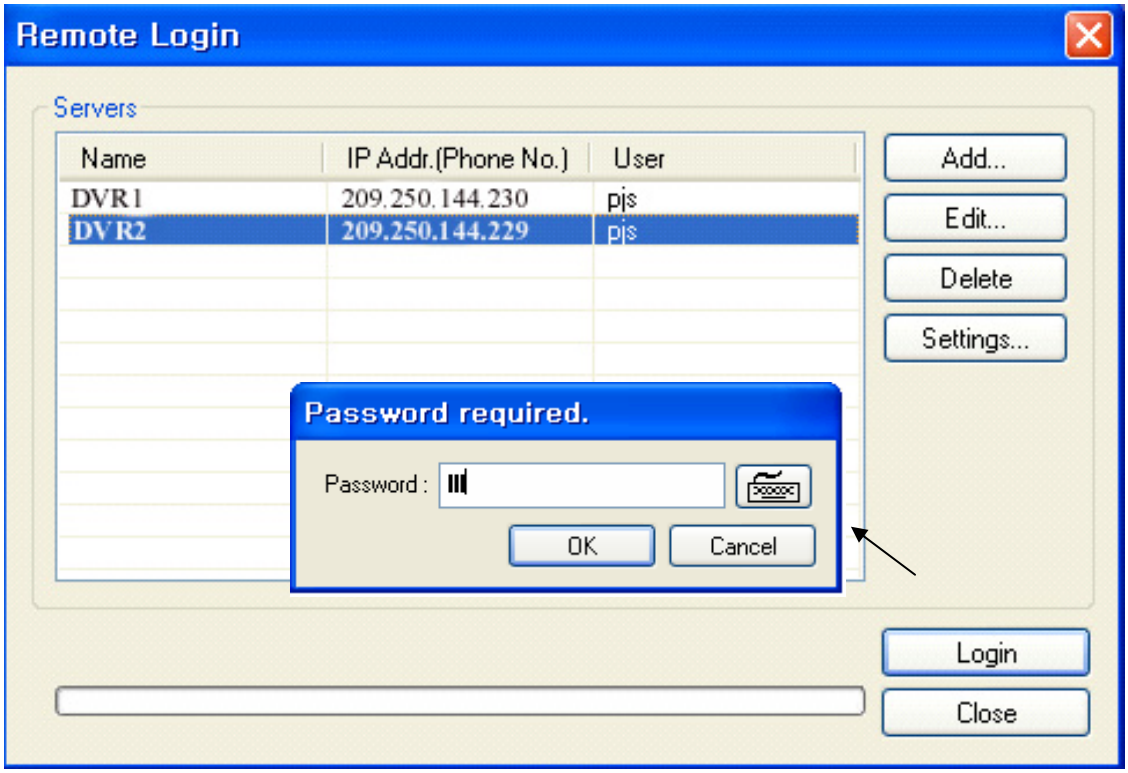
# CHAPTER 6
# Remote Monitoring System (Client)

## 6.1 Program Execution

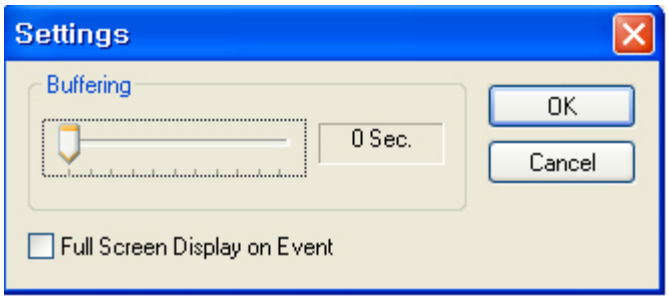
Double-click on the "DVR Client" icon on the desktop to execute Remote Monitoring System (Client).






There can be more than one DVR server registered. Select one from "Servers", click on "Login" and type in password to log in.
* Edit: Login info. changes can be made here.
* Delete: Registered servers can be deleted with one click.




Full Screen Display on Event: If checked, full screen will be displayed on events.

## 6.2 Remote Save and Backup

The instant AVI file save of real time video can be done remotely.

1. Right click the mouse to start saving.
2. Right click the mouse to stop saving.

Remote Backup can also be done.
The same procedure is used as "DFS Backup".

## 6.3 Real Time Audio

Right click the mouse and select "Enable Audio" to hear real time audio.

Note: Changing "Setup" remotely can be done if remote user is "Admin" or "Admin Mode".

**Appendix 1**
**POS DVR**

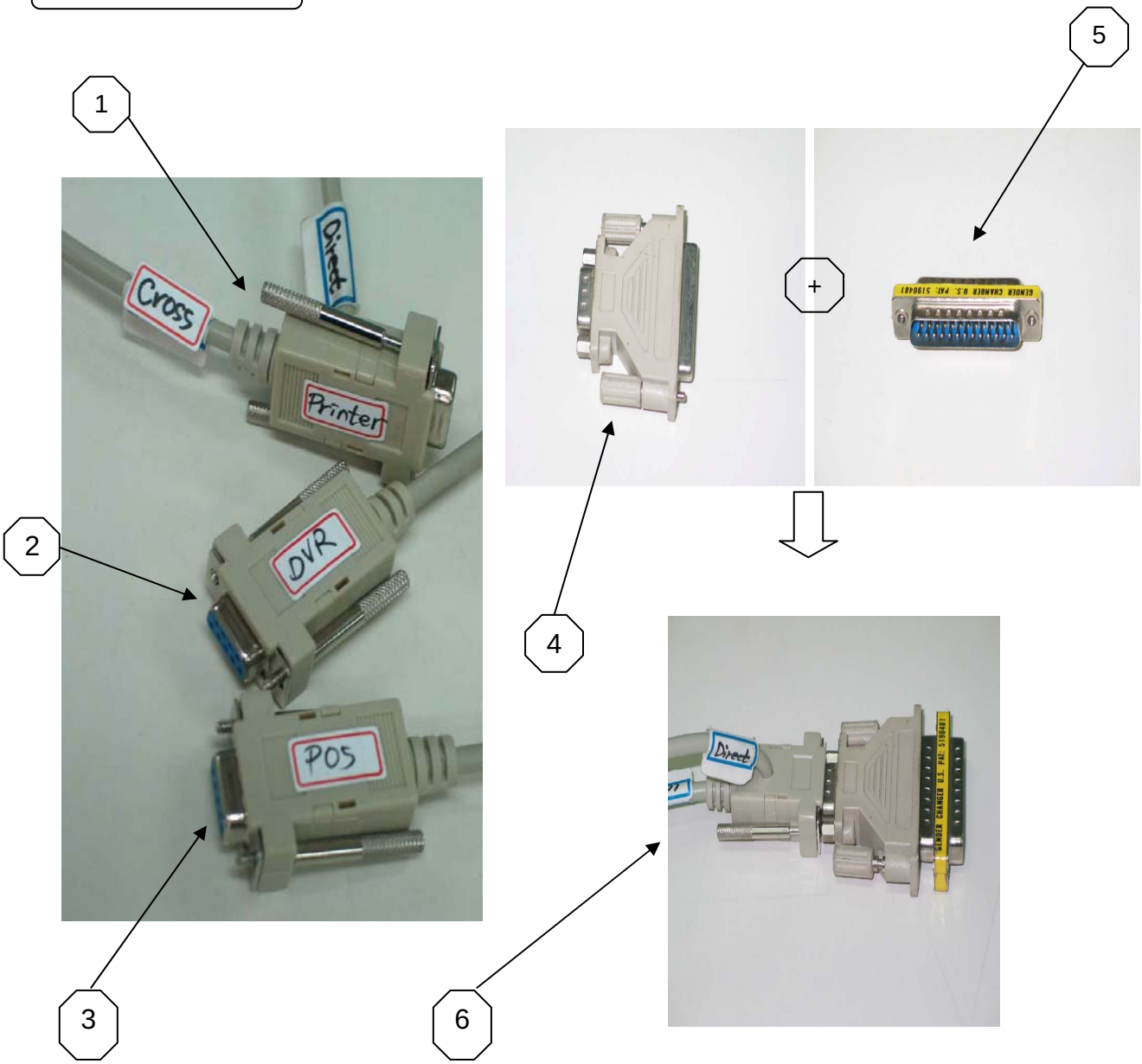
# TABLE OF CONTENTS

**1.1 Hardware Installation**
**1.1.1 Parts**
**1.1.2 Installation**

**1.2 Software Installation**
**1.2.1 Installation & Setup**

# 1.1 Hardware Installation

## 1.1.1. Parts



## Part Names

7

8

9

1.RS232 Serial Cables
(Cross & Direct)
2. RS232 Serial Cable
3. RS232 Serial Cable
4. RS232 Serial Converter
(9 pins into 25 pins)
5. Gender Changer
6. #1 + #4 + #5
7. DVR
8. POS Printer
9. Point of Sales (POS)

## 1.1.2 Installation

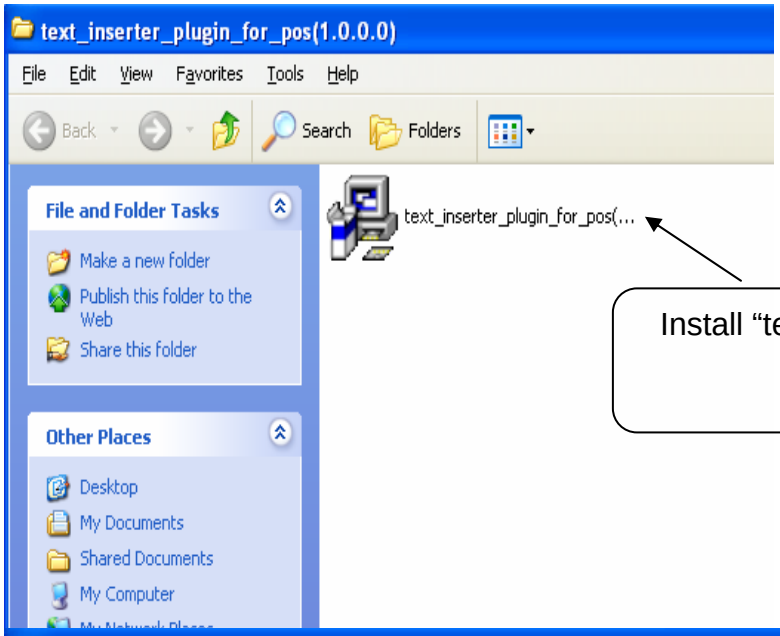
Part # 2 goes into the COM Port 1 of Part # 7.

Part # 1 goes into the serial port of Part # 8.

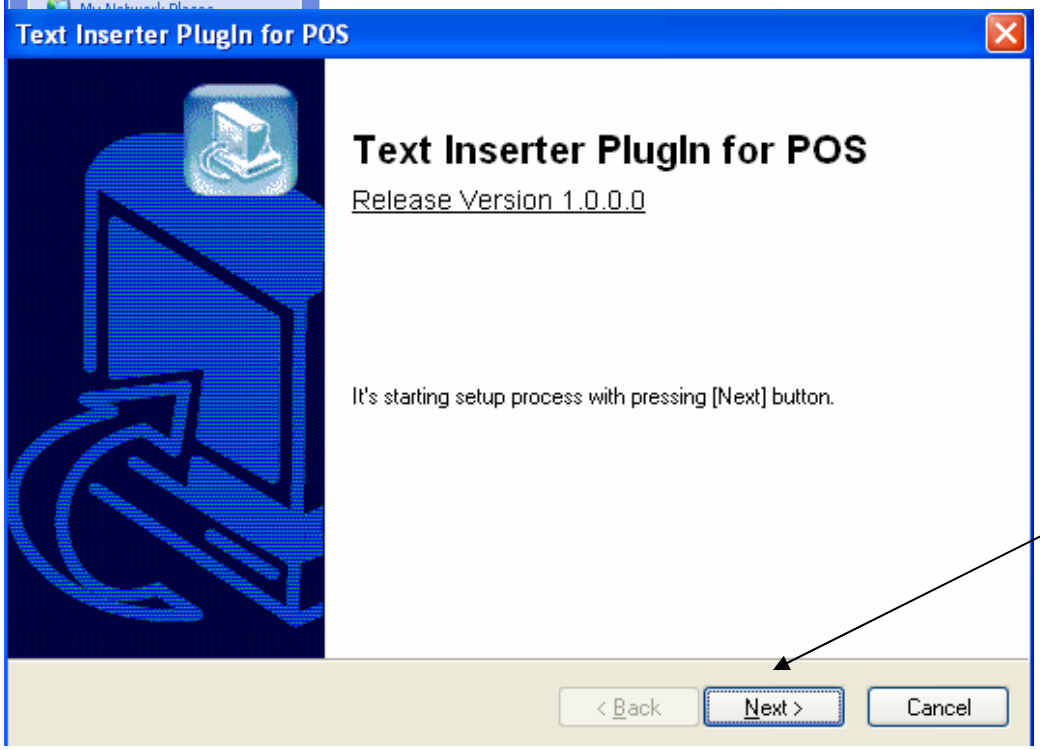
Part # 3 goes into the serial port of Part # 9.

## 1.2 Software Installation

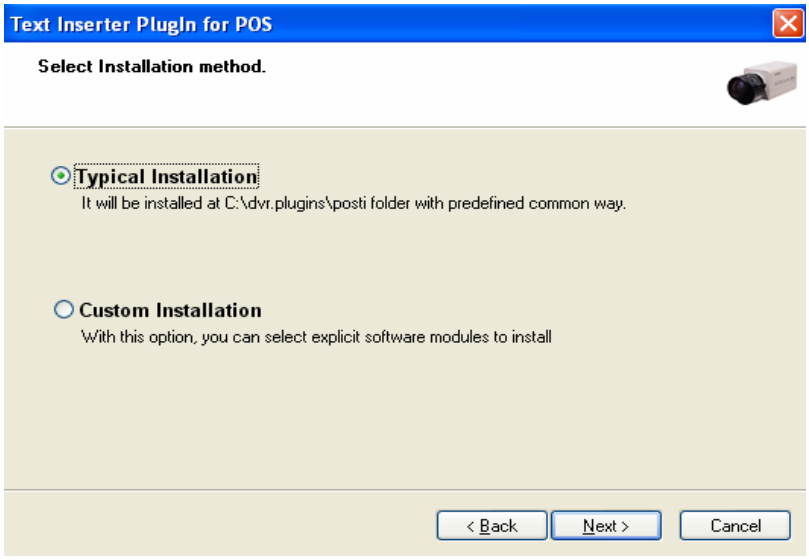
### 1.2.1 Installation & Setup



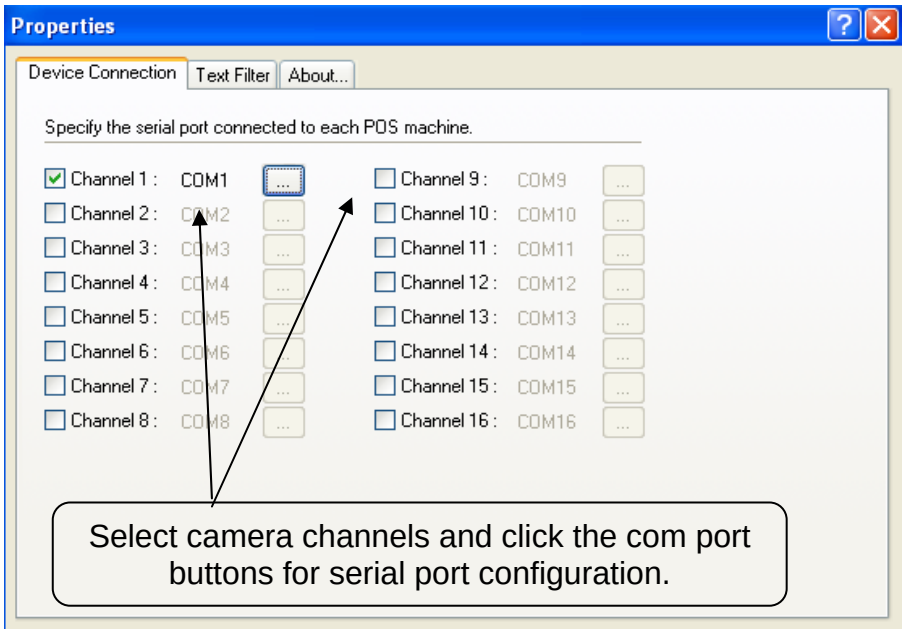

Install "text_inserter_plugin_for_pos" on DVR Server.


Text Inserter PlugIn for POS
Text Inserter PlugIn for POS
Release Version 1.0.0.0
It's starting setup process with pressing [Next] button.
< Back
Next >
Cancel

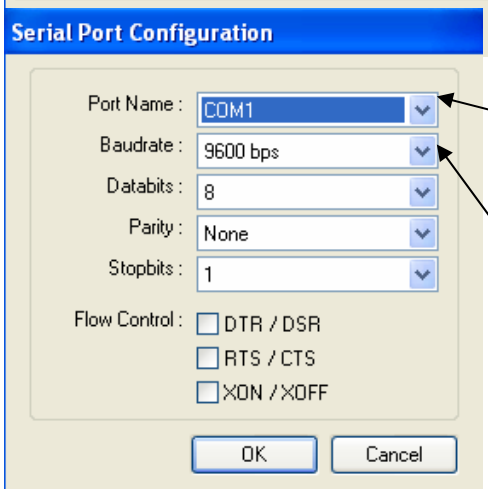
Click "Next" to start.


Text Inserter PlugIn for POS
Select Installation method.
Typical Installation
It will be installed at C:\dvr.plugins\posti folder with predefined common way.
Custom Installation
With this option, you can select explicit software modules to install
< Back
Next >
Cancel

Select "Typical Installation" for automatic installation.

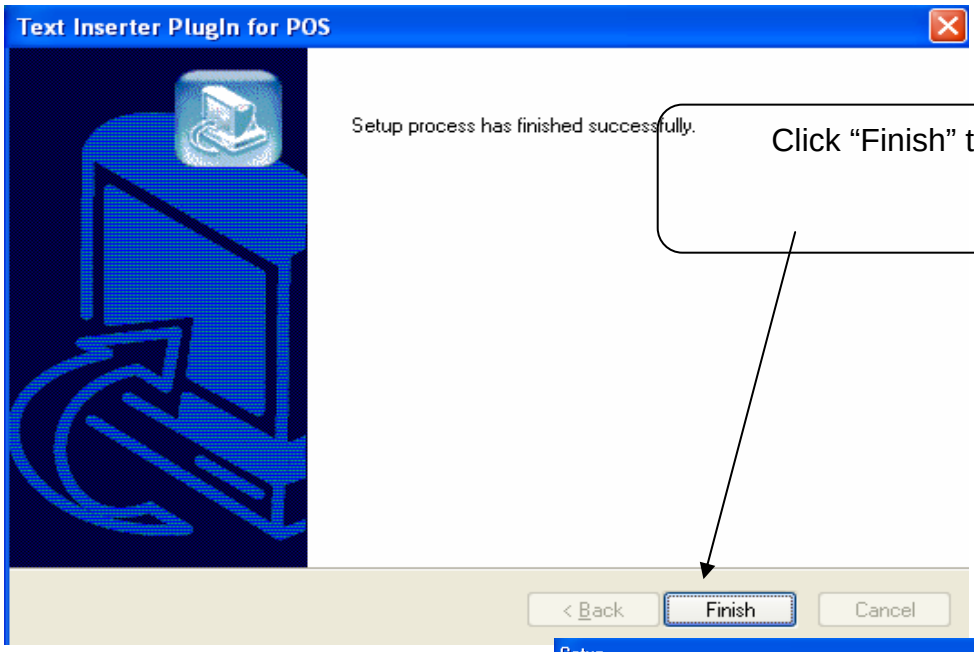



Select camera channels and click the com port buttons for serial port configuration.

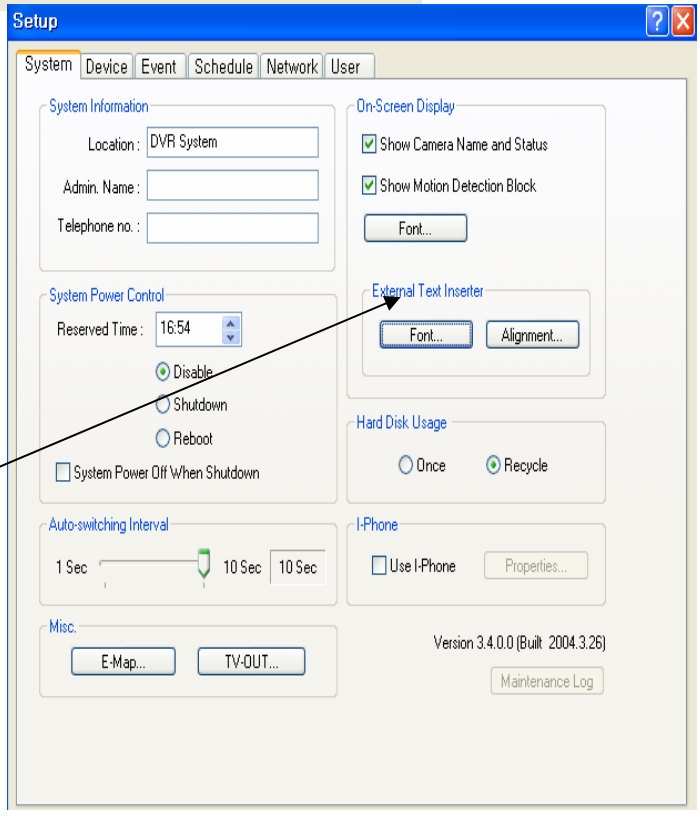



Make sure to select "COM1" if POS printer is connected to com port 1.

The Baud rate value is normally 9600.




Go to "Text Inserter" in the DVR setup and choose different fonts and different display corners.



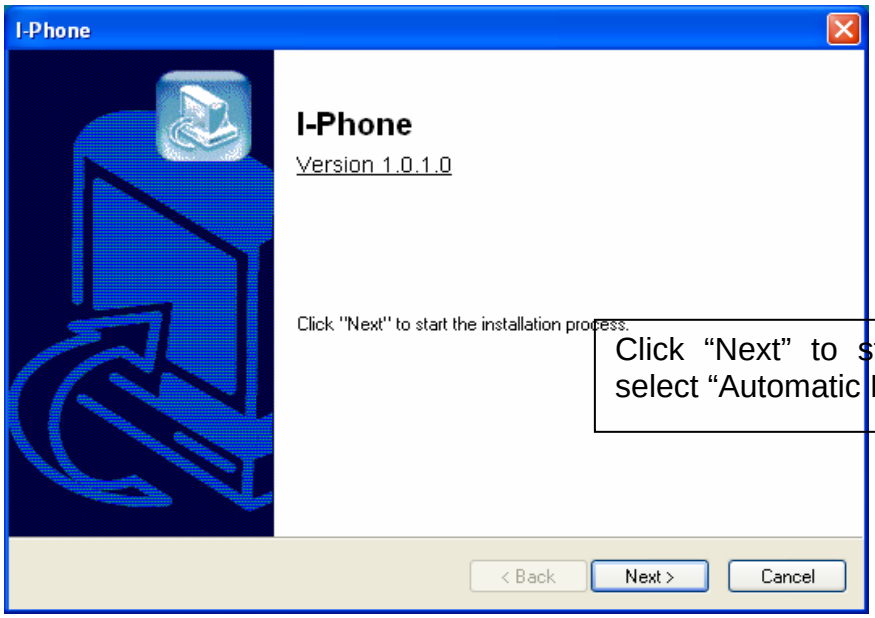
# Appendix 2
# I-phone

## TABLE OF CONTENTS

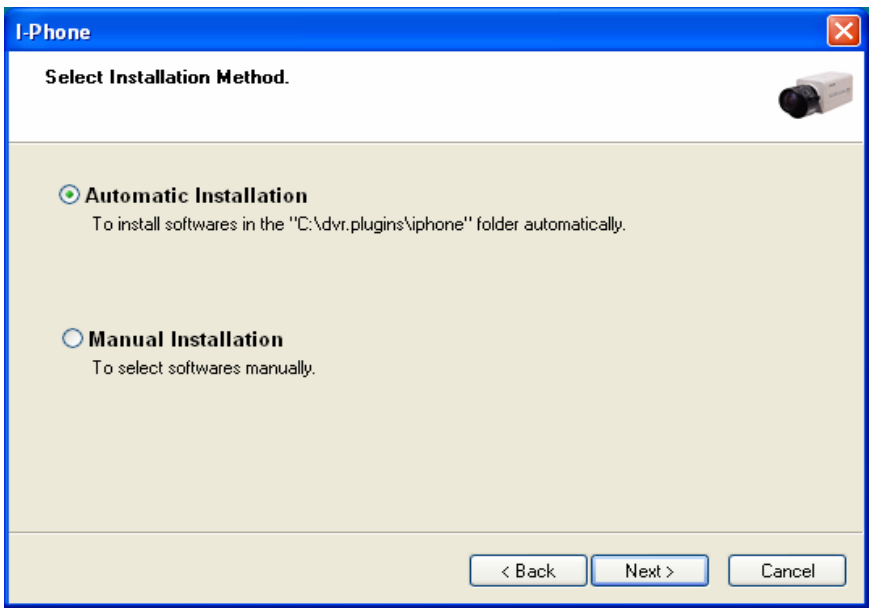
2.1 Installation
2.2 Execution
2.3 Audio Setup

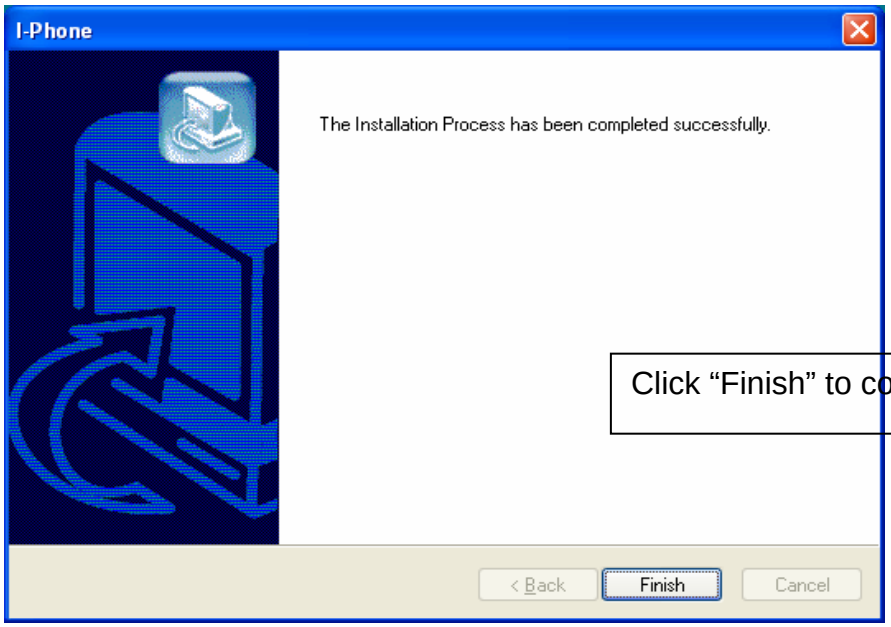
## 2.1 Installation

Any system used for "Two-way Communication" must have static IP and "iphone(1.0.1.0).exe" must be installed.
For I-phone installation, double-click on "iphone(1.0.1.0).exe".



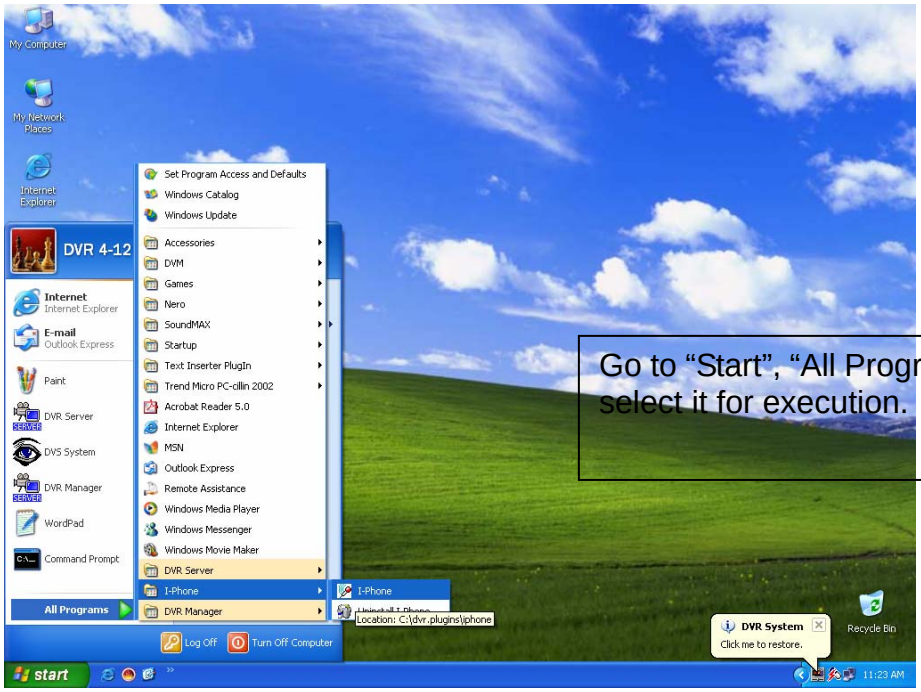

Click "Next" to start installation process and select "Automatic Installation".



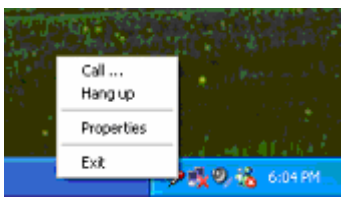



Click "Finish" to complete the process.

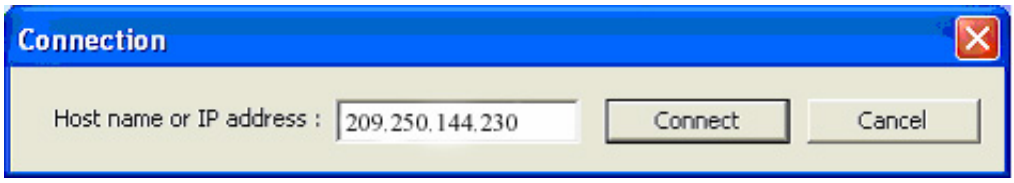
## 2.2 Execution



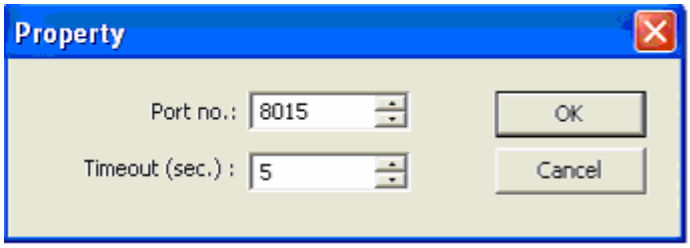

Go to "Start", "All Programs", find "I-phone" and select it for execution.




Find the I-phone icon at the right bottom and click it for the next step.

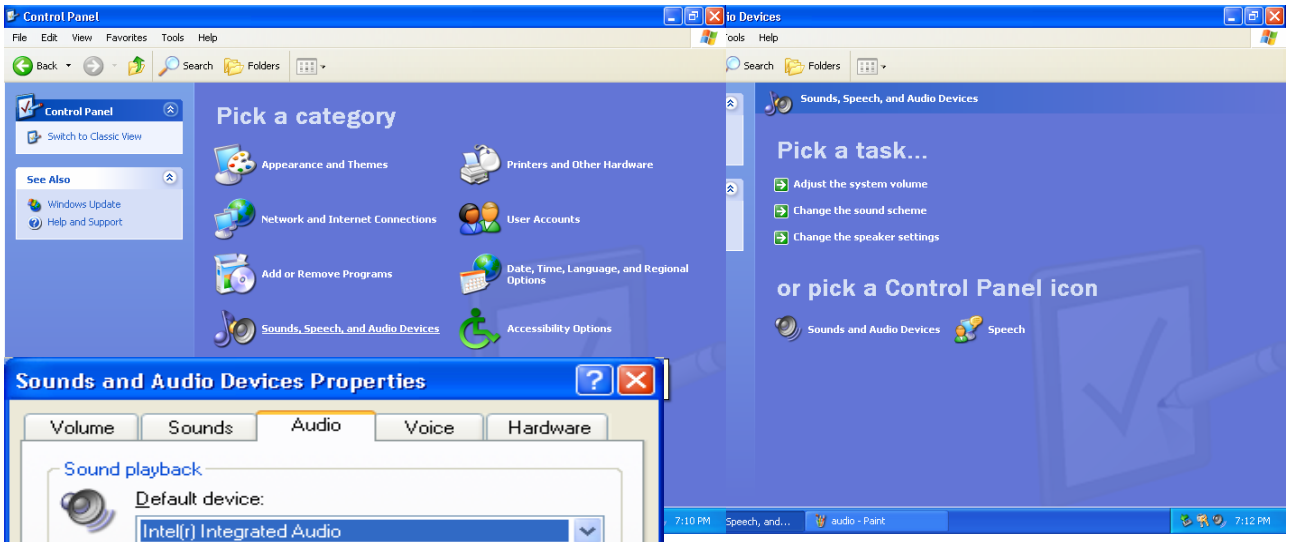


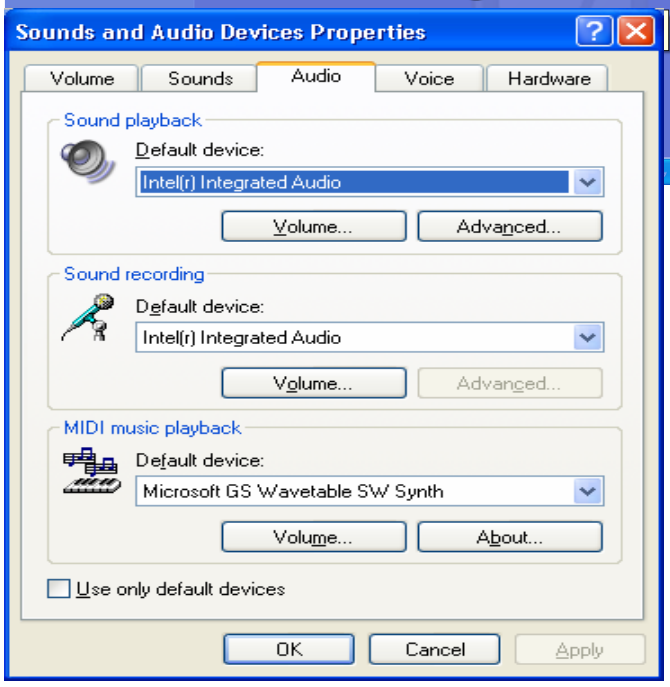

Select "Call" for Two-Way Communication", type in IP address and click "Connect".



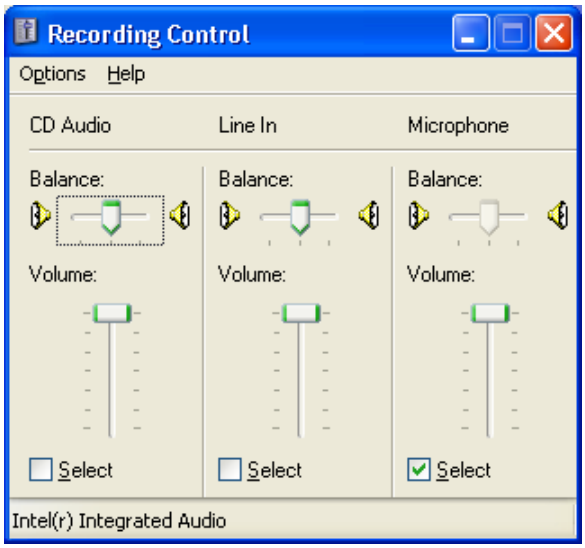

Property: The default port number is 8015 and the default timeout value is 5 seconds.
Leave them as they are unless other values must be used.

## 2.3 Audio Setup




Go to "Control Panel", "Sounds, Speech and Audio Devices" and "Sounds and Audio Devices". Then, go to "Audio", "Sound playback" and click "Volume".




Recording Control should be set up this way.

# Appendix 3
# DVR Manager

## TABLE OF CONTENTS

3.1 Installation
- 3.1.1 Start
- 3.1.2 Selection of Installation Method
- 3.1.3 On Installing
- 3.1.4 Finish

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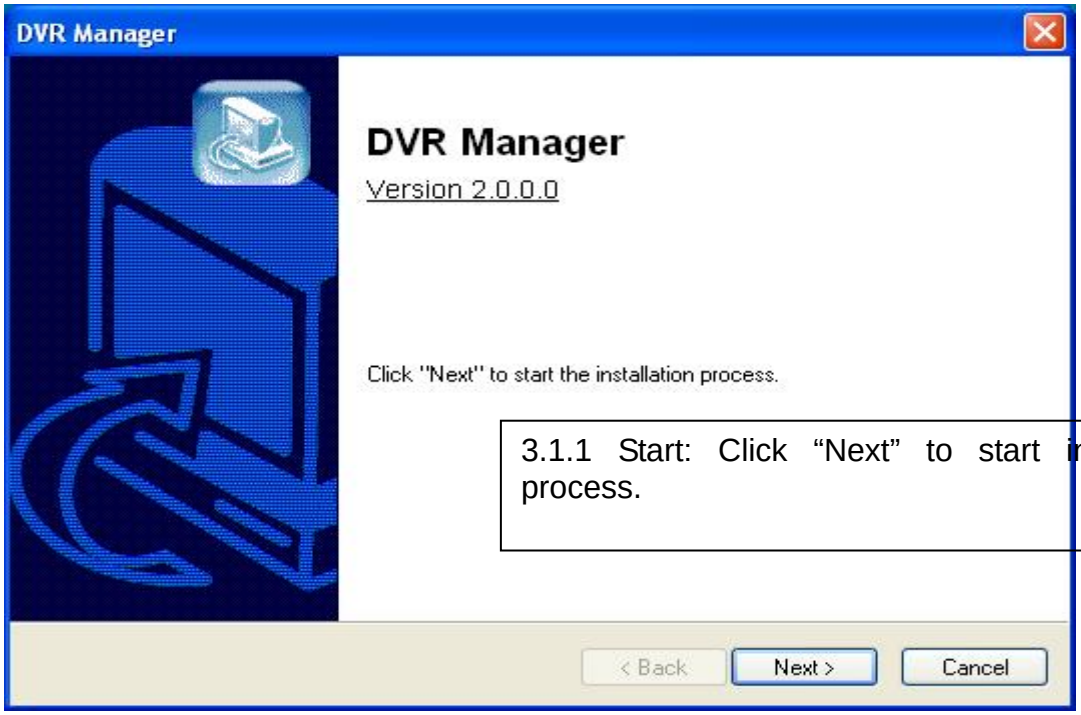
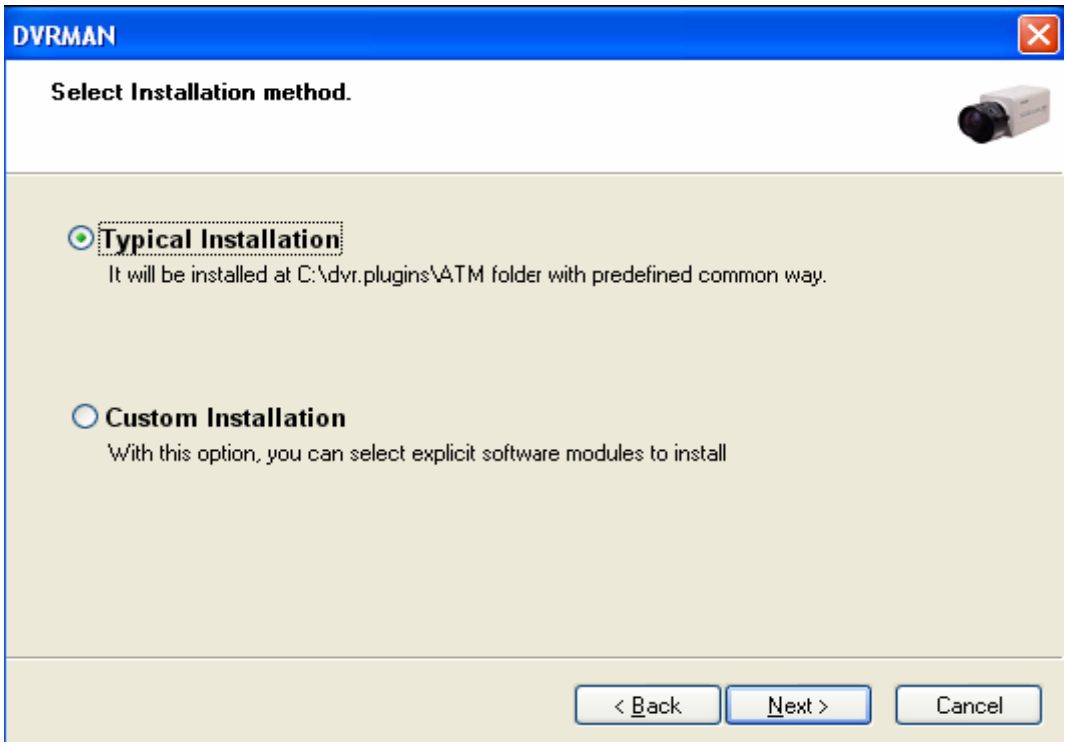
- 3.2.1 DVR
  - 3.2.1.1 Setup
  - 3.2.1.2 Control
  - 3.2.1.3 Search
- 3.2.2 MultiDVR
  - 3.2.2.1 Setup
  - 3.2.2.2 Control
- 3.2.3 C & S (Central Station)
  - 3.2.3.1 Setup
  - 3.2.3.2 Event
  - 3.2.3.3 E-Map

# 3.1 Installation

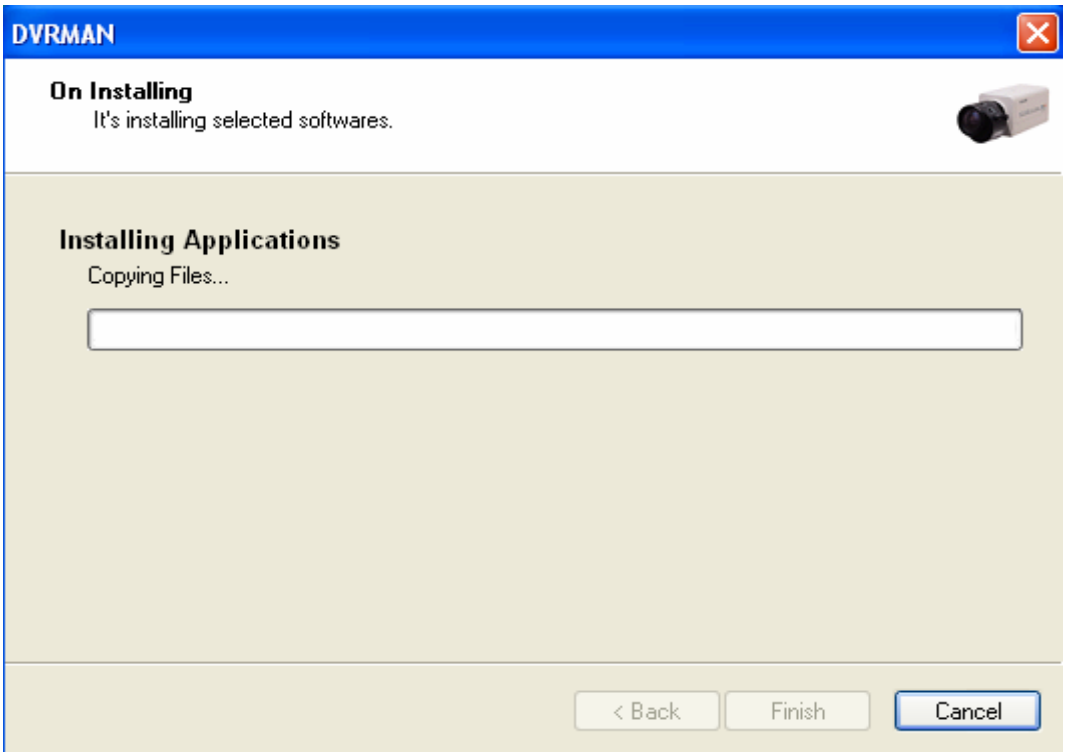



3.1.1 Start: Click "Next" to start installation process.

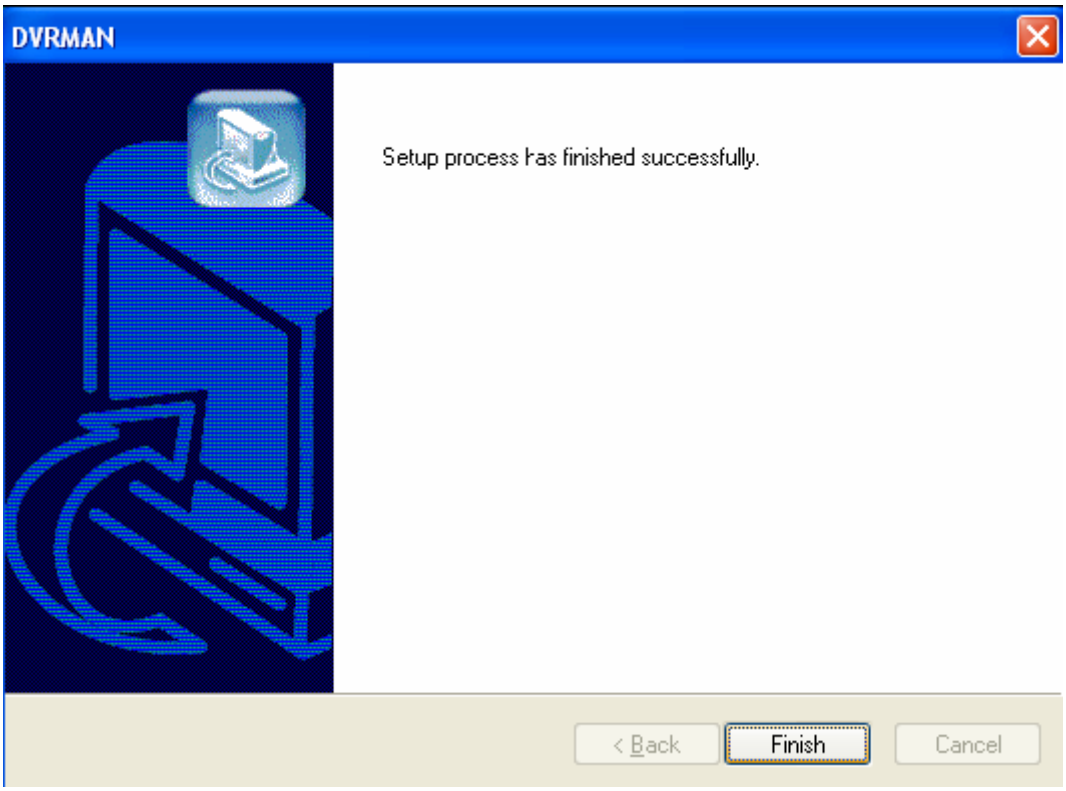
3.1.2 Selection of Installation Method: Select "Automatic Installation".


DVRMAN
Select Installation method.
Typical Installation
It will be installed at C:\dvr.plugins\ATM folder with predefined common way.
Custom Installation
With this option, you can select explicit software modules to install
< Back
Next >
Cancel

3.1.3 On Installing (copying drivers and files)

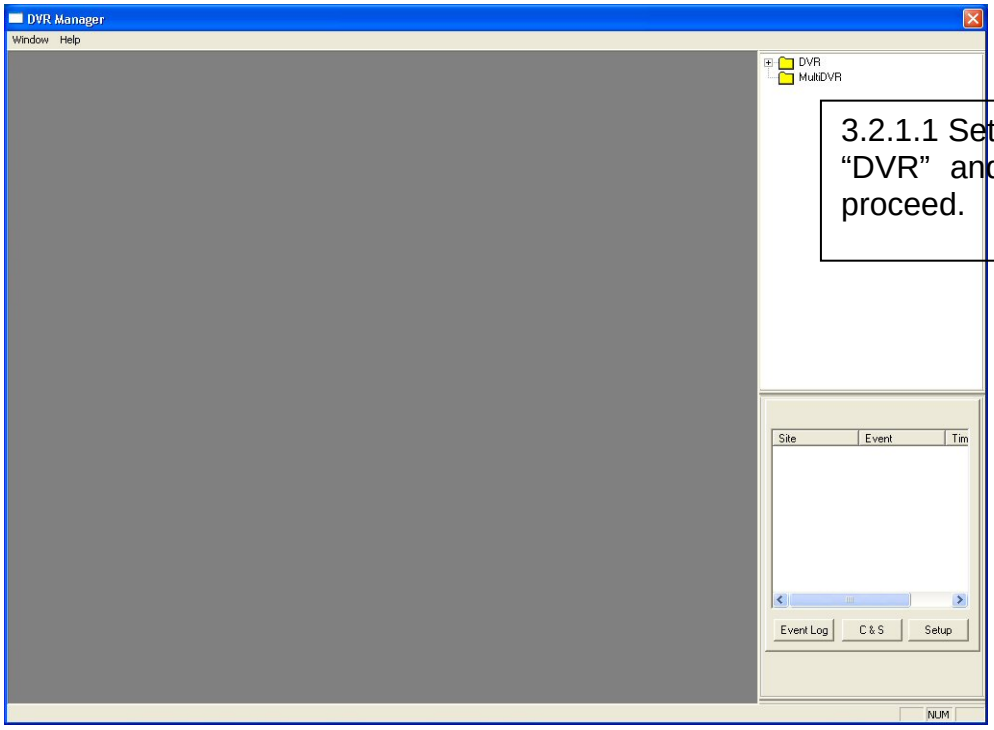



3.1.4 Finish: Click "Finish" to complete.



## 3.2 Execution

3.2.1 DVR: It monitors one specific site selected.

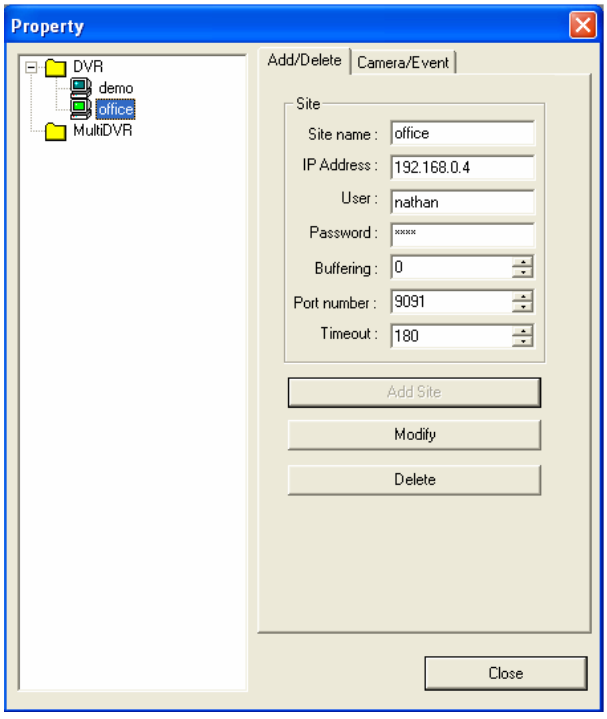


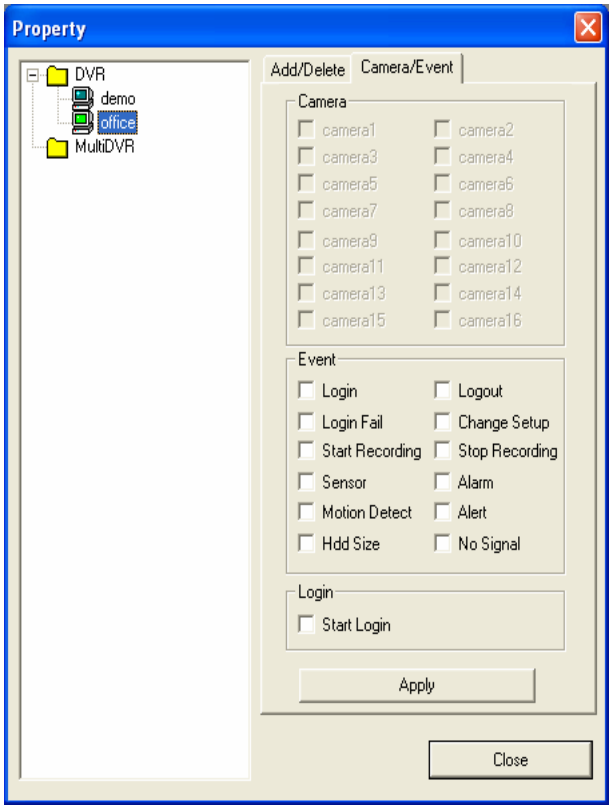

3.2.1.1 Setup: Click on the folder, "DVR" and click on "Setup" to proceed.

Registration Steps:

1. Click on the folder, "DVR".
2. Type in all the required info.
3. Click "Add Site" for completion.
4. Repeat the above steps to register more sites.

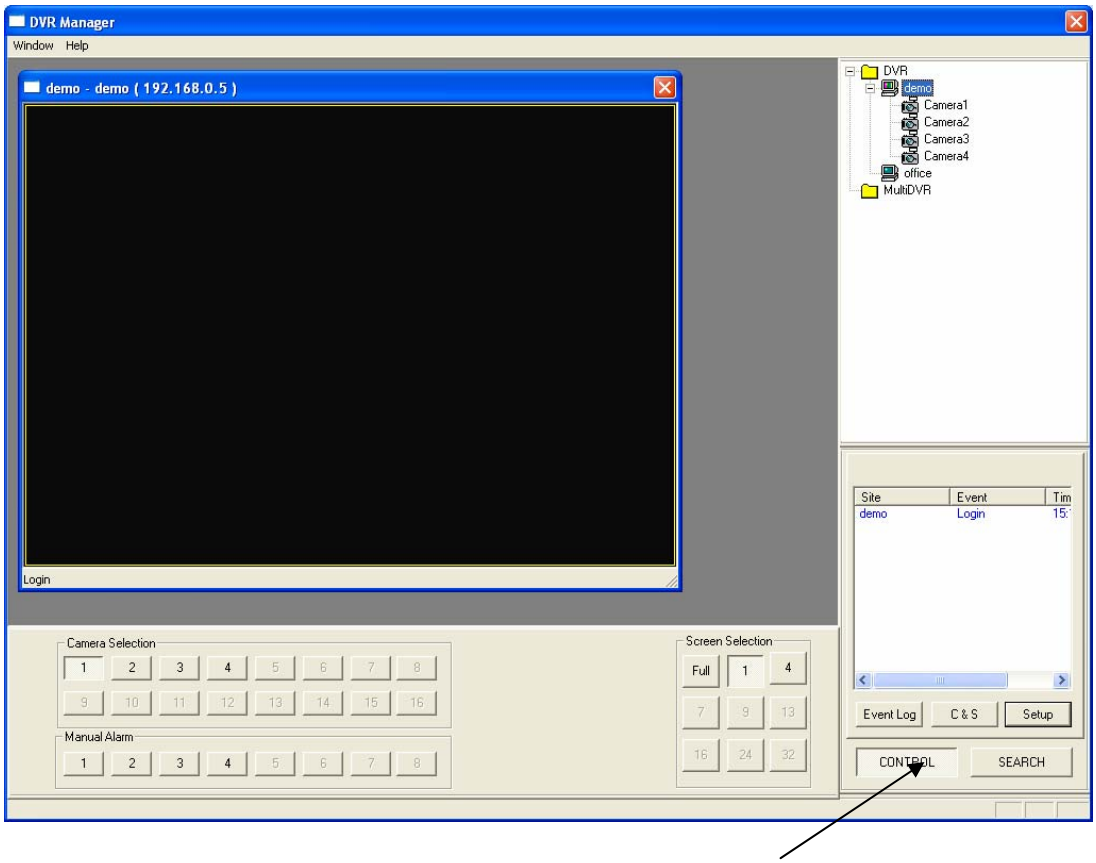
Note: 1. To edit a DVR site, select it from the tree on the left, edit it and click on "Notify".
2. To delete a site, select it and click on "Delete".





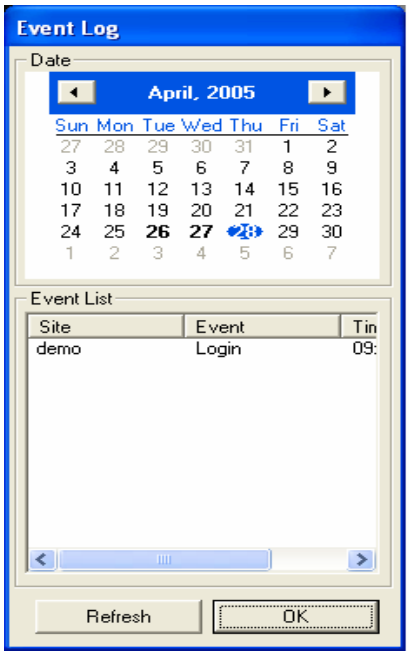

Checked events will be reported to DVR Manager and recorded in Event Log.

3.2.1.2 Control

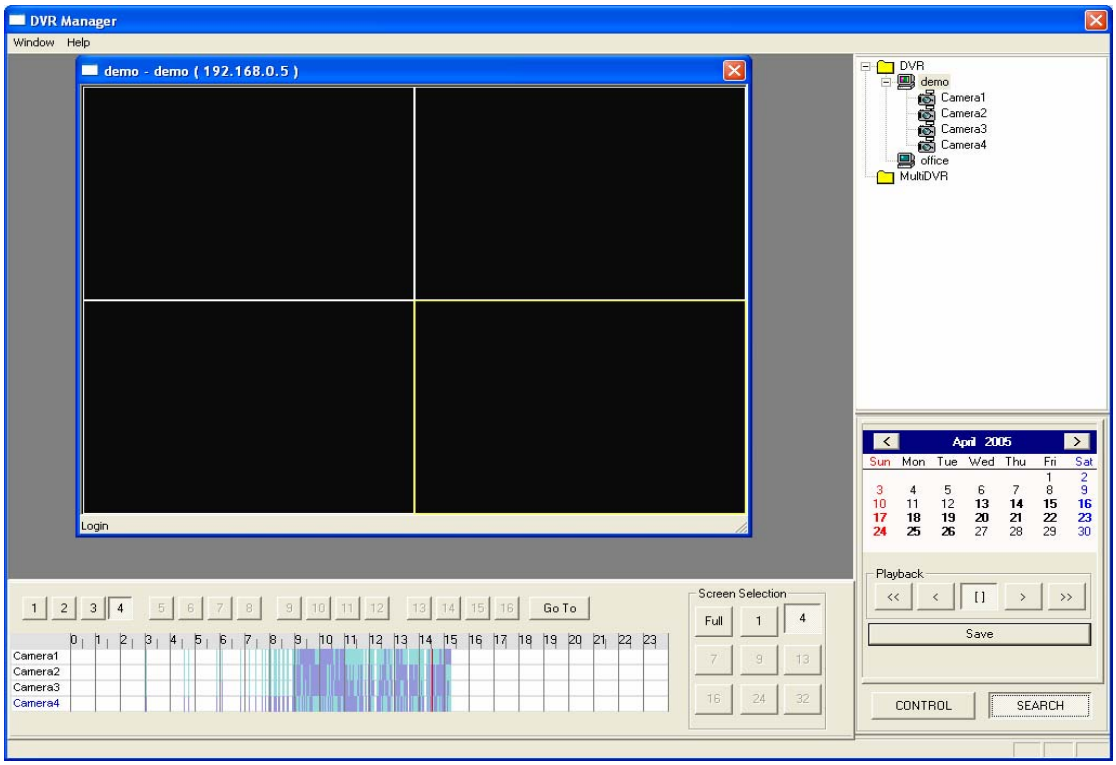


Event Log

*Manual Alarm*
*Steps:
1. Set alarms on DVR Server.
2. Monitor on DVR Manager.
3. Detect event.
4. Click alarm button.

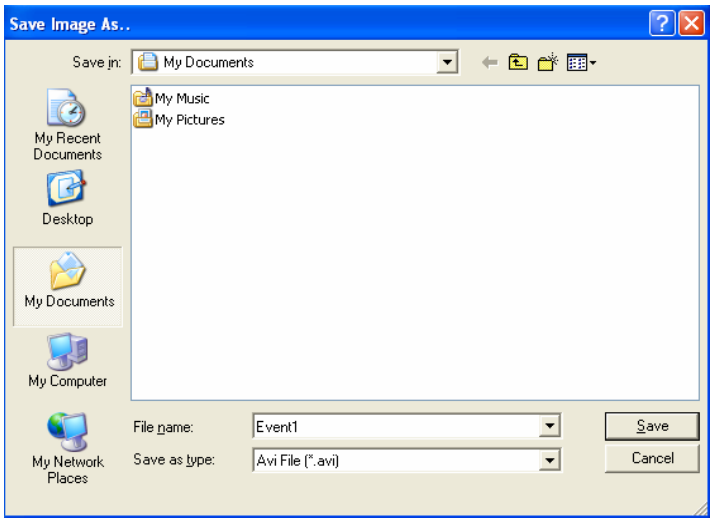


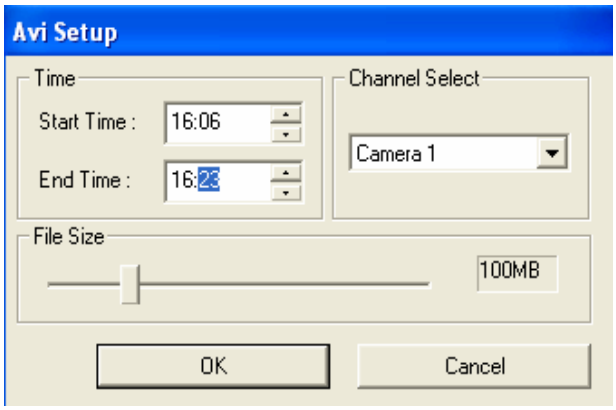

3.2.1.3 Search



Search Steps:
1. Select a DVR site from the tree at the top right for playback.
2. Select a date from the calendar.
3. Select time to be searched either by clicking on the time bar or by using "Go To".

Saving in AVI File Format

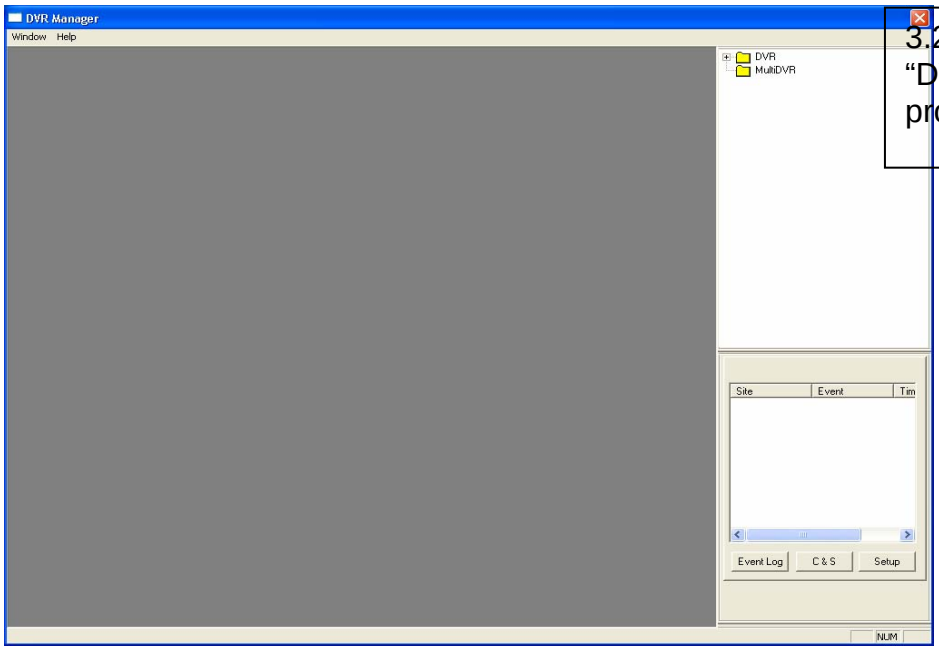


Stop

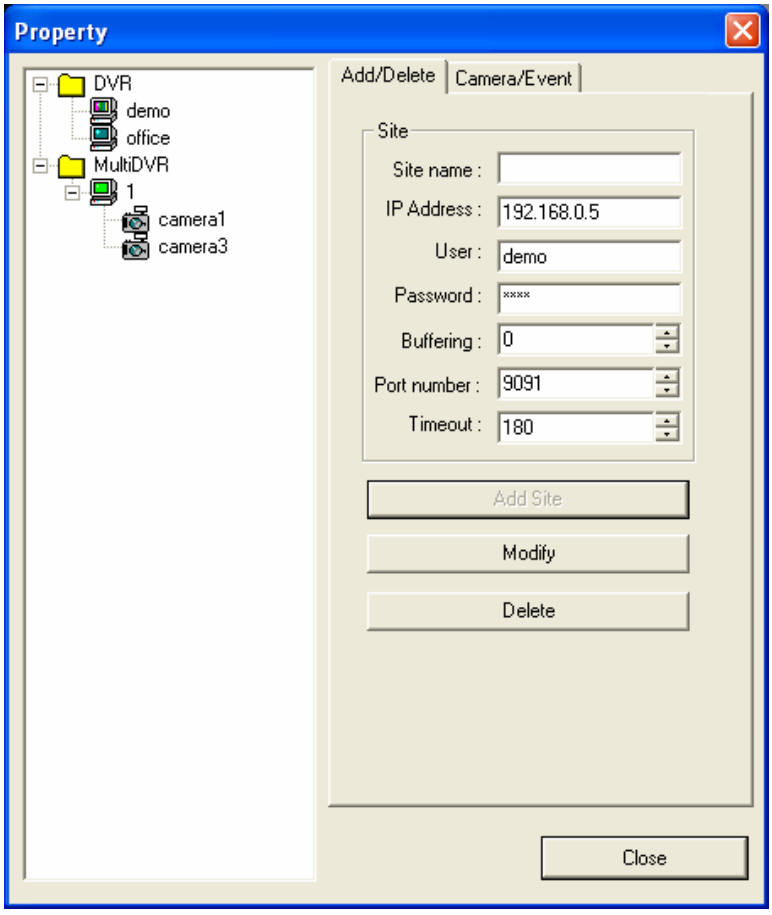
Cancel

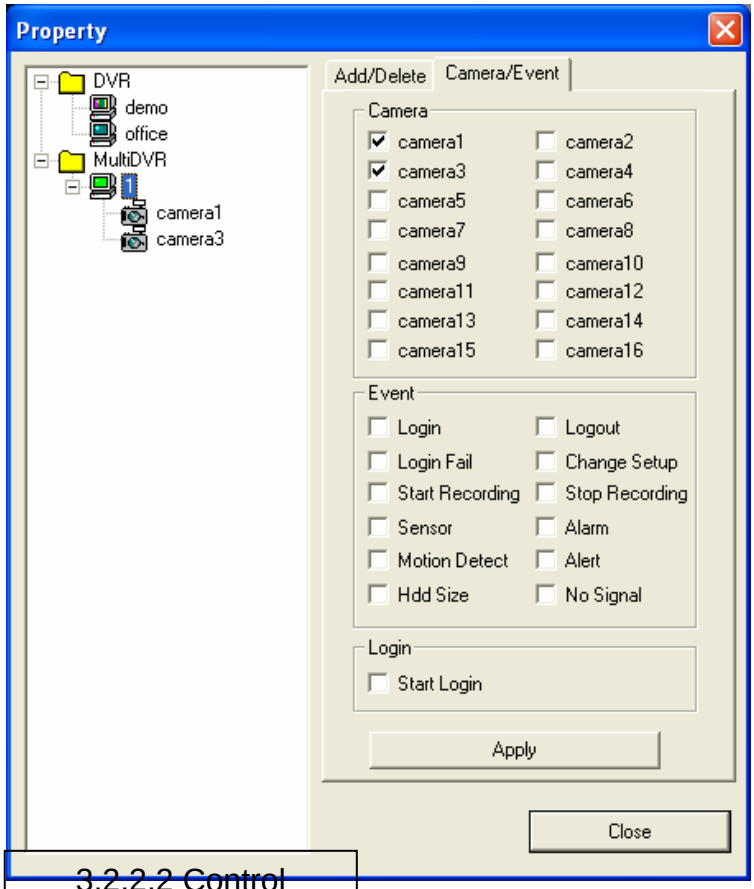
3.2.2 MultiDVR: It monitors as many as 32 cameras from different DVR sites.



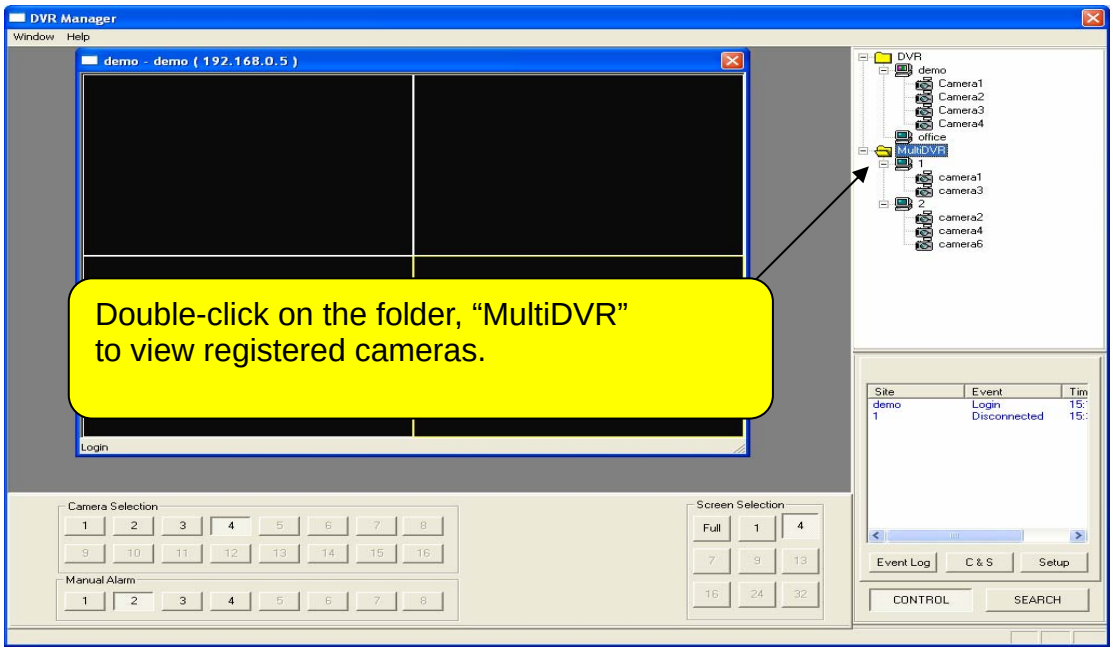

3.2.2.1 Setup: Click on the folder, "DVR" and click on "Setup" to proceed.

Registration Steps:
1.Click on the folder, "MultiDVR".
2.Type in all the required info.
3.Click on "Camera/Event".
4.Select cameras to monitor.
5.Click on "Apply".
6.Repeat the above steps to register
as many as 32 cameras.





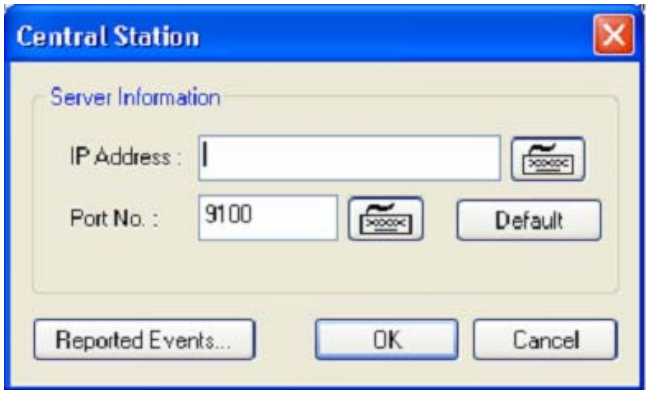

3.2.2.2 Control

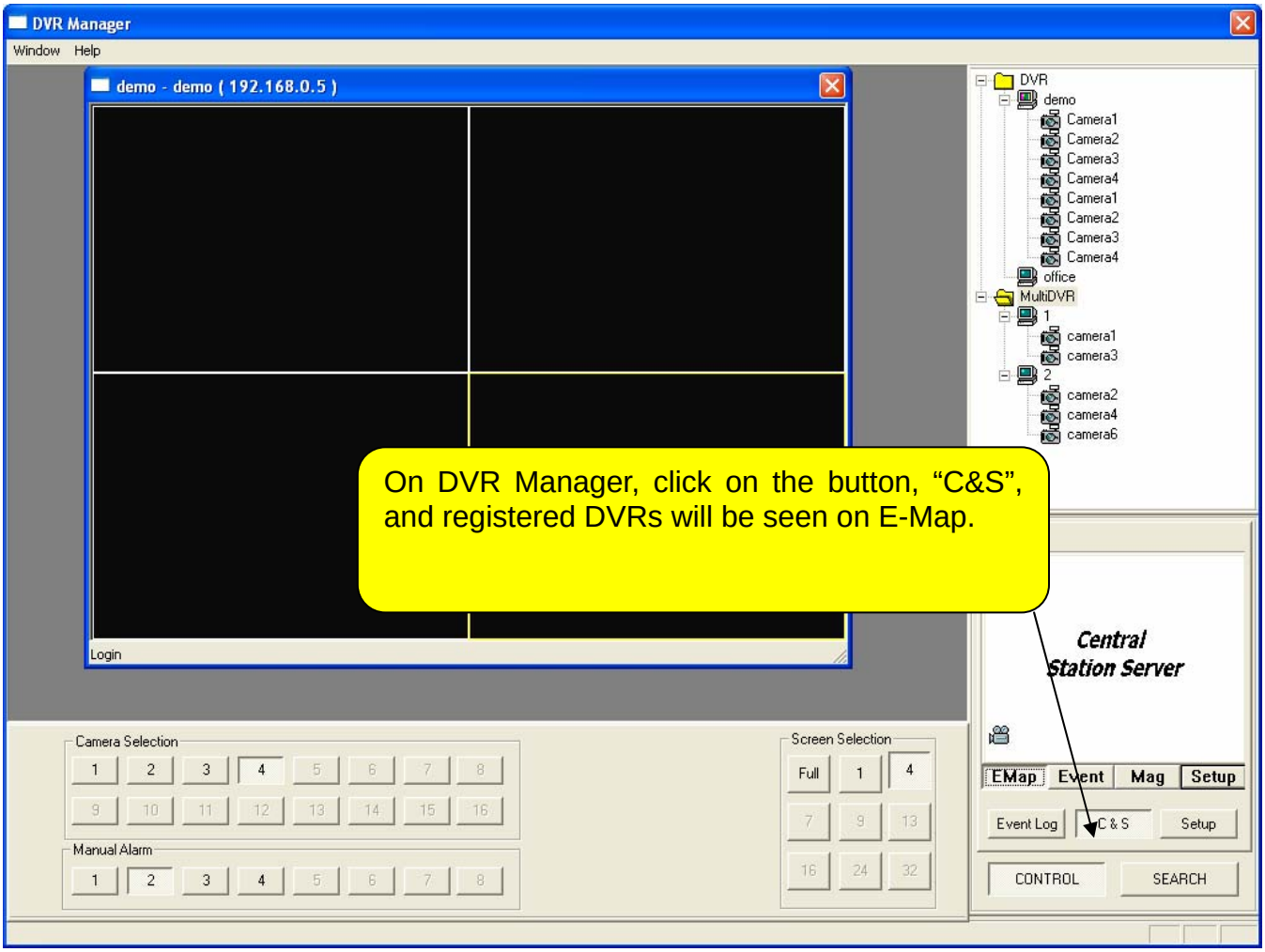


3.2.3 C & S (Central Station): It manages events received from numerous DVR sites.

3.2.3.1 Setup

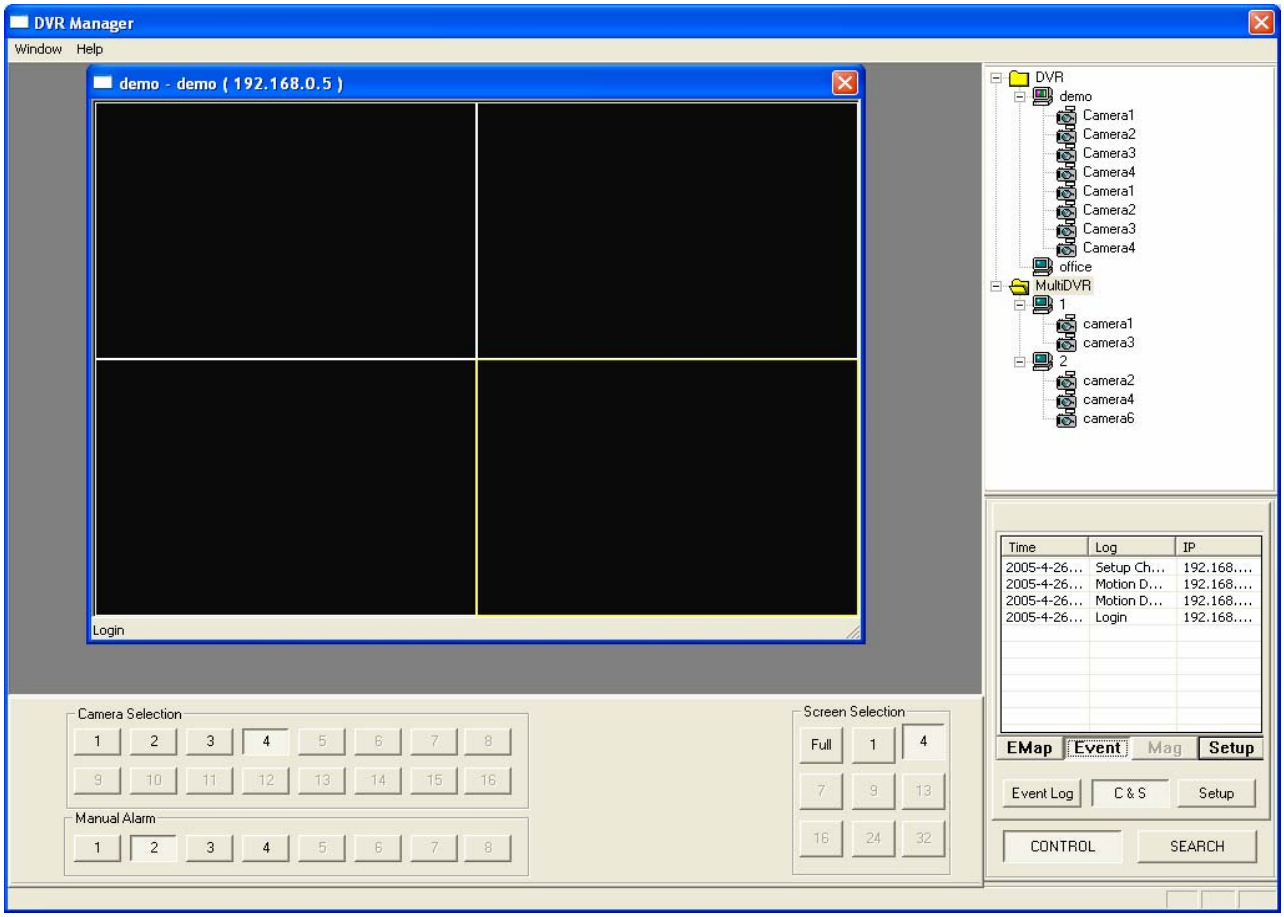
On each DVR server, go to "Setup/Network" and check the box next to "Central Station" Then, type in the IP address of DVR Manager and select events to report.



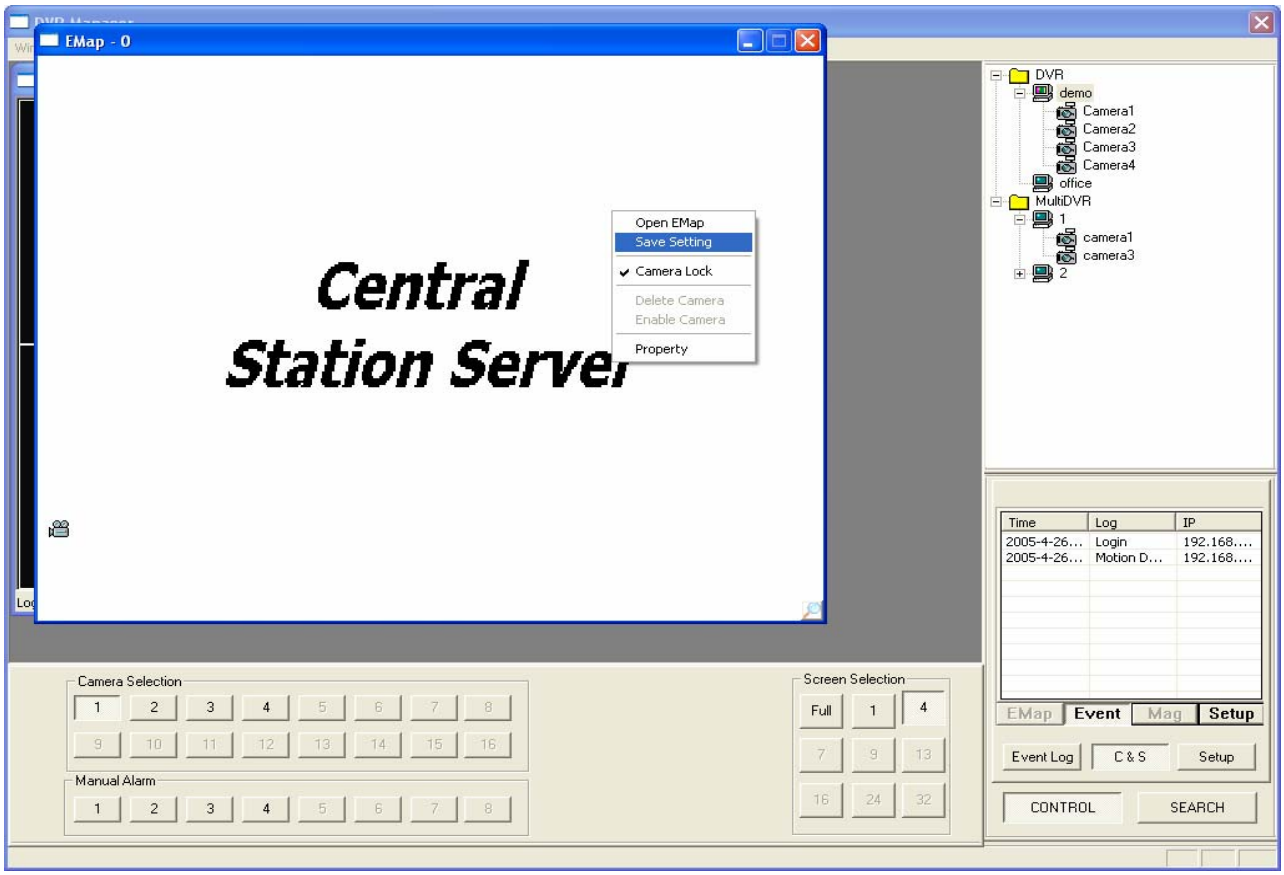
Click on "Setup" for port setup. The default value, 9100 is good to use in all cases.

3.2.3.2 Event

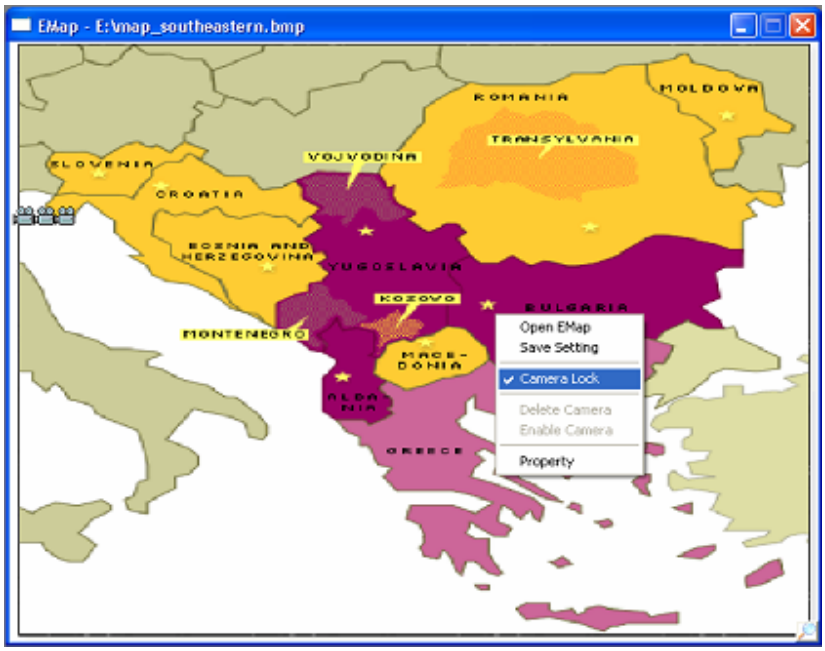



"Event" displays all the events coming in from registered DVRs. Double-click on event to go to DVR server.

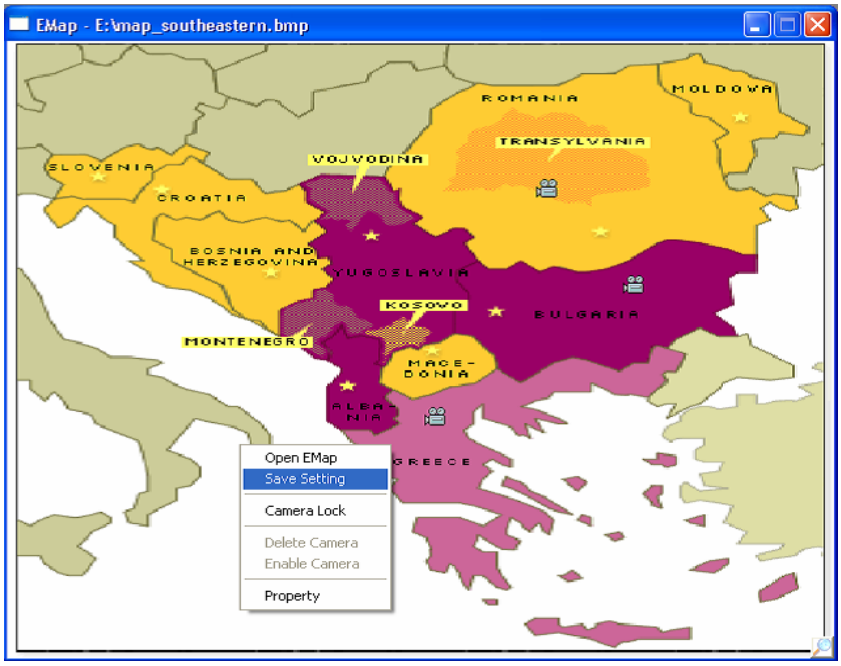
## 3.2.3.3 E-Map



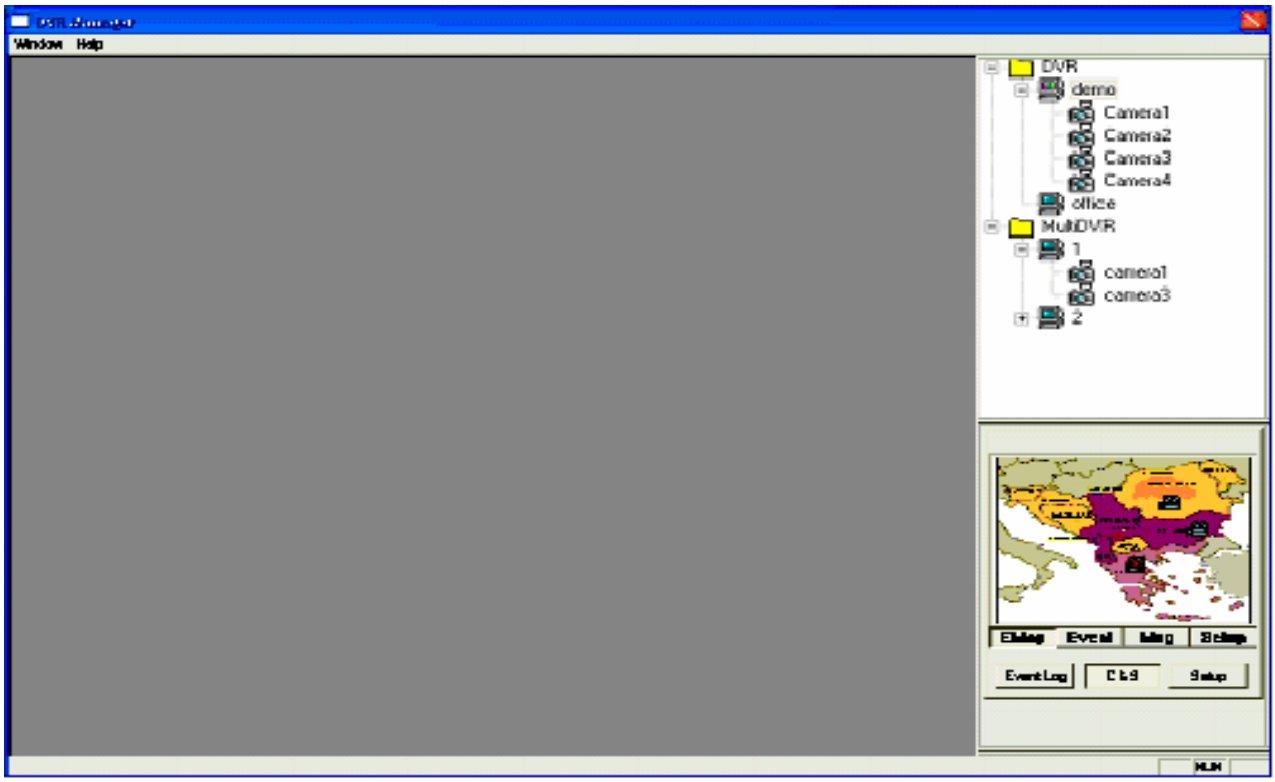

Click on "Mag" to configure E-Map. To create an E-Map image, click on the right mouse and select "Open E-Map". Only BMP file can be in use.



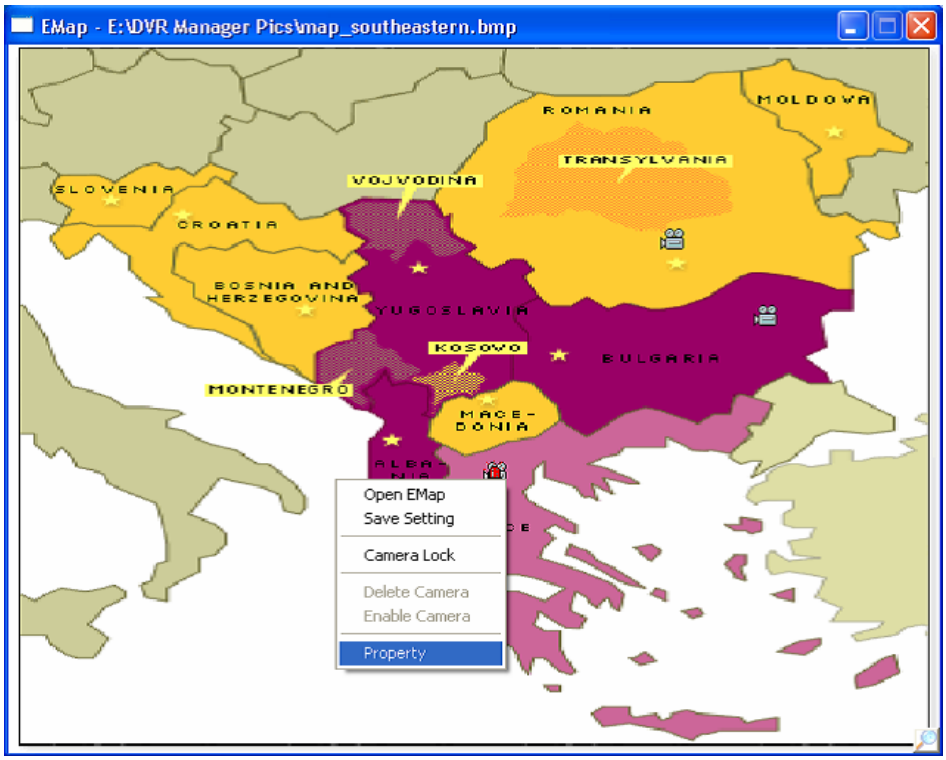

Right click the mouse and select "Camera Lock" to be able to position DVRs at desired locations.

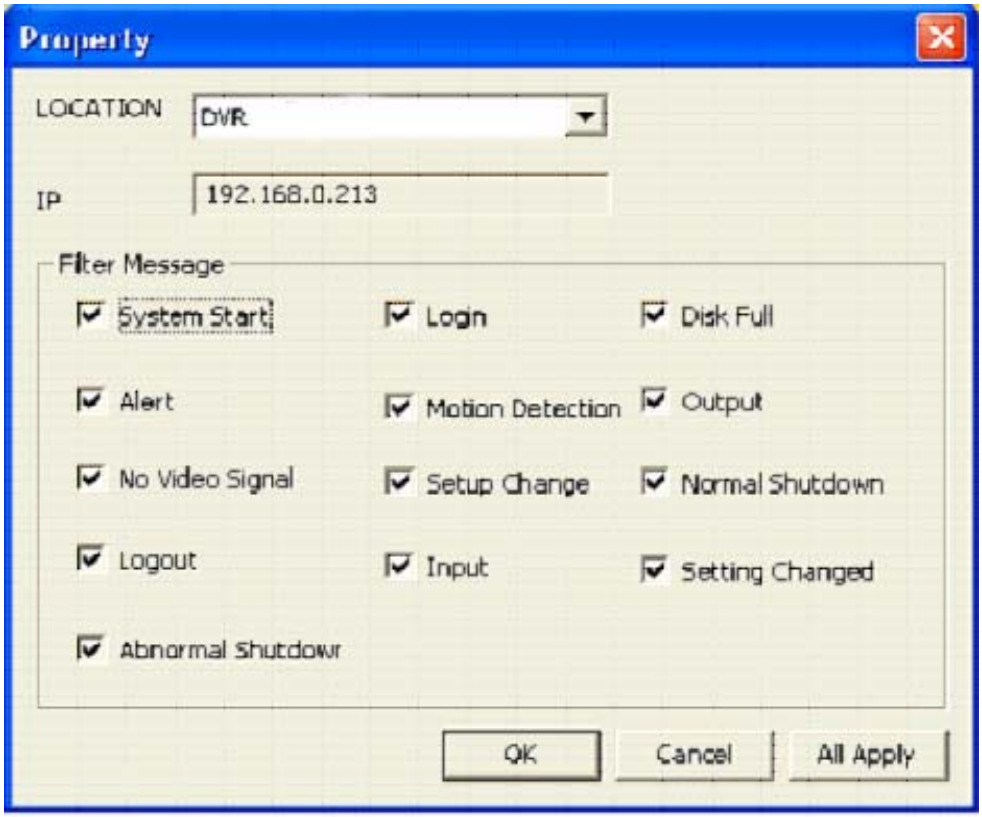



Right click the mouse and select "Save Setting" to save image and camera locations.




Restricting incoming events and receiving only desired events can be done regardless of DVR setup. On E-Map, click on the right mouse and select "Property". Only checked events will be reported to C&S. Click on "All Apply" to give the same conditions to all the rest of the DVR sites.




After configuration, selected E-Map image and all DVR sites at selected locations can be viewed. To visit a certain DVR site using E-Map, click on "Mag" and double-click on the site (camera-shaped symbol). Any DVRs (cameras) blinking in red and blue have events happening.